```
;
;Program colpitts4w8.m - (c) 2003 Leonard Gojer
;Computation of Coil Component Parameters for Draw1
;
;Initial Frequency and Amplitude Change To Set Up Draw1
;from Colpitts example in textbook

;Desired Frequency                    =          1000000.0000000000000000
;Desired Amplification                =                2.5641025640000001
;Initial Result 1 Amplitude           =          1020167.3008604913000000
;Secondary Result 2 Amplitude         =          1591250.1987552077000000
;Computed Ac1
;(Component Amplification Factor)      =                0.4455000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.5597933764520968
;
(defun c:drawblks()
  (progn
;
;Desired Frequency                    =          1000000.0000000000000000
;Desired Amplification                =       -677101984.3908647300000000
;Initial Result 1 Amplitude           =          1020167.3008604913000000
;Secondary Result 2 Amplitude         =          1591763.0229981595000000
;Computed Ac1
;(Component Amplification Factor)      =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.5602960628668832
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =              687.7483761970102000
;C2                                   =               75.8546003158466960
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
;
;
    (setq count     1.0000000000000000)
    (setq DesFreq 1000000.0000000000000000)
    (setq DesAmp -677101984.3908647300000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1591763.0229981595000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.5602960628668832)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1   687.7483761970102000)
    (setq C2    75.8546003158466960)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
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```
;
;Desired Frequency                    =          2000000.0000000000000000
;Desired Amplification                =       1093890900.8998342000000000
;Initial Result 1 Amplitude           =          1020167.3008604913000000
;Secondary Result 2 Amplitude         =          1793977.1741274723000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.7585127190552838
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =              171.9370940492525500
;C2                                   =               18.9636500789616740
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
;
;
    (setq count     2.0000000000000000)
    (setq DesFreq 2000000.0000000000000000)
    (setq DesAmp 1093890900.8998342000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1793977.1741274723000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.7585127190552838)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1   171.9370940492525500)
    (setq C2    18.9636500789616740)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          3000000.0000000000000000
;Desired Amplification                =      -1145133097.5823998000000000
;Initial Result 1 Amplitude           =          1020167.3008604913000000
;Secondary Result 2 Amplitude         =          1837198.2326472637000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8008793568443360
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =               76.4164862441122350
;C2                                   =                8.4282889239829650
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
```

```
;
;
    (setq count     3.0000000000000000)
    (setq DesFreq 3000000.0000000000000000)
    (setq DesAmp -1145133097.5823998000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1837198.2326472637000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8008793568443360)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1    76.4164862441122350)
    (setq C2     8.4282889239829650)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                          =           4000000.0000000000000000
;Desired Amplification                      =         914925400.2787877300000000
;Initial Result 1 Amplitude                 =           1020167.3008604913000000
;Secondary Result 2 Amplitude               =           1852821.7998048405000000
;Computed Ac1
;(Component Amplification Factor)           =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                        =                 1.8161940676220669
;Sign 1 (sign of Result 1)                  =                -1.0000000000000000
;Sign 2 (sign of Result 2)                  =                -1.0000000000000000
;L1                                         =                 0.0005778500000000
;C1                                         =                42.9842735123131380
;C2                                         =                 4.7409125197404185
;C3                                         =                 0.0000001057367829
;Rd                                         =           3022600.0000000000000000
;R1                                         =         444500000.0000000000000000
;Rl1                                        =                61.6640193456665950
;
;
    (setq count     4.0000000000000000)
    (setq DesFreq 4000000.0000000000000000)
    (setq DesAmp 914925400.2787877300000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1852821.7998048405000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8161940676220669)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1    42.9842735123131380)
    (setq C2     4.7409125197404185)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;                                          =          5000000.0000000000000000
;Desired Frequency                         =       -582831999.2587380400000000
;Desired Amplification                     =          1020167.3008604913000000
;Initial Result 1 Amplitude               =          1860143.5956246902000000
;Secondary Result 2 Amplitude
;Computed Ac1                              =                0.4445000000000000
;(Component Amplification Factor)
;Check of Amplification Factor Desired     =             1.8233711216343587
;(Result 2/Result 1)                       =            -1.0000000000000000
;Sign 1 (sign of Result 1)                 =            -0.9999999999999999
;Sign 2 (sign of Result 2)                 =             0.0005778500000000
;L1                                        =            27.5099350478804010
;C1                                        =             3.0341840126338671
;C2                                        =             0.0000001057367829
;C3                                        =       3022600.0000000000000000
;Rd                                        =     444500000.0000000000000000
;R1                                        =            61.6640193456665950
;R11
;
;
     (setq count     5.0000000000000000)
     (setq DesFreq 5000000.0000000000000000)
     (setq DesAmp -582831999.2587380400000000)
     (setq Init1Amp 1020167.3008604913000000)
     (setq Sec2Amp 1860143.5956246902000000)
     (setq CompAc1     0.4445000000000000)
     (setq CheckAmp     1.8233711216343587)
     (setq Sign1    -1.0000000000000000)
     (setq Sign2    -0.9999999999999999)
     (setq L1     0.0005778500000000)
     (setq C1    27.5099350478804010)
     (setq C2     3.0341840126338671)
     (setq C3     0.0000001057367829)
     (setq Rd 3022600.0000000000000000)
     (setq R1 444500000.0000000000000000)
     (setq R11    61.6640193456665950)
     (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
  L1 C1 C2 C3 Rd R1 R11)
  ;
  ;                                        =          6000000.0000000000000000
  ;Desired Frequency                       =        298929119.8675300500000000
  ;Desired Amplification                   =          1020167.3008604913000000
  ;Initial Result 1 Amplitude             =          1864145.1735272487000000
  ;Secondary Result 2 Amplitude
  ;Computed Ac1                            =                0.4445000000000000
  ;(Component Amplification Factor)
  ;Check of Amplification Factor Desired   =             1.8272935938594370
  ;(Result 2/Result 1)                     =            -1.0000000000000000
  ;Sign 1 (sign of Result 1)               =            -0.9999999999999999
  ;Sign 2 (sign of Result 2)               =             0.0005778500000000
  ;L1                                      =            19.1041215610280590
  ;C1                                      =             2.1070722309957413
  ;C2                                      =             0.0000001057367829
  ;C3
```

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;Rd                                          =            3022600.0000000000000000
;Rl                                          =          444500000.0000000000000000
;Rll                                         =                61.6640193456665950
;
;
    (setq count     6.0000000000000000)
    (setq DesFreq 6000000.0000000000000000)
    (setq DesAmp 298929119.8675300500000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1864145.1735272487000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8272935938594370)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1    19.1041215610280590)
    (setq C2     2.1070722309957413)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rll)
;
;
;Desired Frequency                           =            7000000.0000000000000000
;Desired Amplification                       =         -122501705.2720230100000000
;Initial Result 1 Amplitude                  =            1020167.3008604913000000
;Secondary Result 2 Amplitude                =            1866566.3292895905000000
;Computed Ac1
;(Component Amplification Factor)            =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                 1.8296668867108150
;Sign 1 (sign of Result 1)                   =                -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                -1.0000000000000000
;L1                                          =                 0.0005778500000000
;C1                                          =                14.0356811468777560
;C2                                          =                 1.5480530676703403
;C3                                          =                 0.0000001057367829
;Rd                                          =            3022600.0000000000000000
;R1                                          =          444500000.0000000000000000
;Rll                                         =                61.6640193456665950
;
;
    (setq count     7.0000000000000000)
    (setq DesFreq 7000000.0000000000000000)
    (setq DesAmp -122501705.2720230100000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1866566.3292895905000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8296668867108150)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1    14.0356811468777560)
    (setq C2     1.5480530676703403)
    (setq C3     0.0000001057367829)
```

```
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          8000000.0000000000000000
;Desired Amplification                =         39213324.9574058280000000
;Initial Result 1 Amplitude           =          1020167.3008604913000000
;Secondary Result 2 Amplitude         =          1868141.1211032807000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8312105470617810
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =               10.7460683780782840
;C2                                   =                1.1852281299351046
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
;
;
    (setq count     8.0000000000000000)
    (setq DesFreq 8000000.0000000000000000)
    (setq DesAmp 39213324.9574058280000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1868141.1211032807000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8312105470617810)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1    10.7460683780782840)
    (setq C2     1.1852281299351046)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          9000000.0000000000000000
;Desired Amplification                =         -9397020.7303933501000000
;Initial Result 1 Amplitude           =          1020167.3008604913000000
;Secondary Result 2 Amplitude         =          1869222.3301729562000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8322703821189952
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
```

```
;C1                                          =                 8.4907206937902480
;C2                                          =                 0.9364765471092184
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =                61.6640193456665950
;
;
    (setq count     9.0000000000000000)
    (setq DesFreq 9000000.0000000000000000)
    (setq DesAmp -9397020.7303933501000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1869222.3301729562000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8322703821189952)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     8.4907206937902480)
    (setq C2     0.9364765471092184)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          10000000.0000000000000000
;Desired Amplification                       =           1558462.9127581744000000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1869996.4813518643000000
;Computed Ac1
;(Component Amplification Factor)            =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                 1.8330292293965496
;Sign 1 (sign of Result 1)                   =                -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                -0.9999999999999999
;L1                                          =                 0.0005778500000000
;C1                                          =                 6.8774837619701001
;C2                                          =                 0.7585460031584668
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =                61.6640193456665950
;
;
    (setq count    10.0000000000000000)
    (setq DesFreq 10000000.0000000000000000)
    (setq DesAmp 1558462.9127581744000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1869996.4813518643000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8330292293965496)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
```

```
    (setq C1     6.8774837619701001)
    (setq C2     0.7585460031584668)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          11000000.0000000000000000
;Desired Amplification                =           -151166.0307631841300000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1870569.6784979163000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8335910952253882
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =                5.6838708776612412
;C2                                   =                0.6268975232714603
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =              61.6640193456665950
;
;
    (setq count    11.0000000000000000)
    (setq DesFreq 11000000.0000000000000000)
    (setq DesAmp -151166.0307631841300000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1870569.6784979163000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8335910952253882)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     5.6838708776612412)
    (setq C2     0.6268975232714603)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          12000000.0000000000000000
;Desired Amplification                =              4809.4153844230086000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1871005.8766148859000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8340186703070456
```

```
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   4.7760303902570147
;C2                                       =                   0.5267680577489353
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count    12.0000000000000000)
    (setq DesFreq 12000000.0000000000000000)
    (setq DesAmp  4809.4153844230086000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1871005.8766148859000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8340186703070456)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     4.7760303902570147)
    (setq C2     0.5267680577489353)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =           13000000.0000000000000000
;Desired Amplification                    =               147.6256410197360100
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1871345.4814504706000000
;Computed Ac1
;(Component Amplification Factor)         =                   0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                   1.8343515616233015
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   4.0695170189172201
;C2                                       =                   0.4488437888511638
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count    13.0000000000000000)
    (setq DesFreq 13000000.0000000000000000)
    (setq DesAmp   147.6256410197360100)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1871345.4814504706000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8343515616233015)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     4.0695170189172201)
    (setq C2     0.4488437888511638)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          14000000.0000000000000000
;Desired Amplification                =                13.4230769225400020
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1871615.0351590670000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8346157866267583
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -0.9999999999999999
;L1                                   =                 0.0005778500000000
;C1                                   =                 3.5089202867194391
;C2                                   =                 0.3870132669175851
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count    14.0000000000000000)
    (setq DesFreq 14000000.0000000000000000)
    (setq DesAmp    13.4230769225400020)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1871615.0351590670000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8346157866267583)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     3.5089202867194391)
    (setq C2     0.3870132669175851)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          15000000.0000000000000000
;Desired Amplification                =                 1.9794871794080002
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1871832.5545329123000000
;Computed Ac1
```

```
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8348290059425136
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -0.9999999999999999
;L1                                      =                  0.0005778500000000
;C1                                      =                  3.0566594497644894
;C2                                      =                  0.3371315569593186
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count    15.0000000000000000)
    (setq DesFreq 15000000.0000000000000000)
    (setq DesAmp     1.9794871794080002)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1871832.5545329123000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8348290059425136)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     3.0566594497644894)
    (setq C2     0.3371315569593186)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =          16000000.0000000000000000
;Desired Amplification                   =                  0.3435897435760000
;Initial Result 1 Amplitude              =           1020167.3008604913000000
;Secondary Result 2 Amplitude            =           1848034.6133909337000000
;Computed Ac1
;(Component Amplification Factor)        =                110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8115015172826581
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.1430700700000000
;C1                                      =                  0.0108506545294074
;C2                                      =                  0.0011967633672141
;C3                                      =                  0.0000000004270635
;Rd                                      =          748366520.0000000000000000
;R1                                      =       110053900000.0000000000000000
;Rl1                                     =            15267.4146651654810000
;
;
    (setq count    16.0000000000000000)
    (setq DesFreq 16000000.0000000000000000)
    (setq DesAmp     0.3435897435760000)
    (setq Init1Amp 1020167.3008604913000000)
```

```
    (setq Sec2Amp 1848034.6133909337000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8115015172826581)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0108506545294074)
    (setq C2     0.0011967633672141)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          17000000.0000000000000000
;Desired Amplification                    =                 0.0769230769200000
;Initial Result 1 Amplitude               =           1020167.3008604913000000
;Secondary Result 2 Amplitude             =           1850882.5593682330000000
;Computed Ac1
;(Component Amplification Factor)         =               110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8142931632949317
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -1.0000000000000000
;L1                                       =                 0.1430700700000000
;C1                                       =                 0.0096116524551152
;C2                                       =                 0.0010601087266671
;C3                                       =                 0.0000000004270635
;Rd                                       =         748366520.0000000000000000
;R1                                       =      110053900000.0000000000000000
;Rl1                                      =           15267.4146651654810000
;
;
    (setq count    17.0000000000000000)
    (setq DesFreq 17000000.0000000000000000)
    (setq DesAmp     0.0769230769200000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1850882.5593682330000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8142931632949317)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0096116524551152)
    (setq C2     0.0010601087266671)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          18000000.0000000000000000
;Desired Amplification                    =                -0.0179487179480000
```

```
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1853275.8078163883000000
;Computed Ac1
;(Component Amplification Factor)        =                110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8166391005212441
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.1430700700000000
;C1                                      =                  0.0085733566652108
;C2                                      =                  0.0009455908086630
;C3                                      =                  0.0000000004270635
;Rd                                      =          748366520.0000000000000000
;R1                                      =       110053900000.0000000000000000
;Rl1                                     =            15267.4146651654810000
;
;
    (setq count    18.0000000000000000)
    (setq DesFreq 18000000.0000000000000000)
    (setq DesAmp    -0.0179487179480000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1853275.8078163883000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8166391005212441)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0085733566652108)
    (setq C2     0.0009455908086630)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =           19000000.0000000000000000
;Desired Amplification                   =                 -0.0076923076920000
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1855305.8650679654000000
;Computed Ac1
;(Component Amplification Factor)        =                110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8186290263401415
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.1430700700000000
;C1                                      =                  0.0076946469793028
;C2                                      =                  0.0008486742991878
;C3                                      =                  0.0000000004270635
;Rd                                      =          748366520.0000000000000000
;R1                                      =       110053900000.0000000000000000
;Rl1                                     =            15267.4146651654810000
;
;
    (setq count    19.0000000000000000)
```

```
    (setq DesFreq 19000000.0000000000000000)
    (setq DesAmp    -0.0076923076920000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1855305.8650679654000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8186290263401415)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0076946469793028)
    (setq C2     0.0008486742991878)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                          =          20000000.0000000000000000
;Desired Amplification                      =                -0.0358974358960000
;Initial Result 1 Amplitude                 =           1020167.3008604913000000
;Secondary Result 2 Amplitude               =           1857042.5348734101000000
;Computed Ac1
;(Component Amplification Factor)           =               110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                        =                 1.8203313645781736
;Sign 1 (sign of Result 1)                  =                -1.0000000000000000
;Sign 2 (sign of Result 2)                  =                -1.0000000000000000
;L1                                         =                 0.1430700700000000
;C1                                         =                 0.0069444188988207
;C2                                         =                 0.0007659285550170
;C3                                         =                 0.0000000004270635
;Rd                                         =          748366520.0000000000000000
;R1                                         =       110053900000.0000000000000000
;Rl1                                        =            15267.4146651654810000
;
;
    (setq count    20.0000000000000000)
    (setq DesFreq 20000000.0000000000000000)
    (setq DesAmp    -0.0358974358960000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1857042.5348734101000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8203313645781736)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0069444188988207)
    (setq C2     0.0007659285550170)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
```

```
;
;Desired Frequency                    =          21000000.0000000000000000
;Desired Amplification                =               -0.0256410256400000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1858539.7694097199000000
;Computed Ac1
;(Component Amplification Factor)      =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8217990008521914
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.1430700700000000
;C1                                   =                0.0062987926519916
;C2                                   =                0.0006947197777932
;C3                                   =                0.0000000004270635
;Rd                                   =        748366520.0000000000000000
;R1                                   =     110053900000.0000000000000000
;Rl1                                  =            15267.4146651654810000
;
;
    (setq count    21.0000000000000000)
    (setq DesFreq 21000000.0000000000000000)
    (setq DesAmp    -0.0256410256400000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1858539.7694097199000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8217990008521914)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0062987926519916)
    (setq C2     0.0006947197777932)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          22000000.0000000000000000
;Desired Amplification                =               -0.0461538461520000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1859839.6602528745000000
;Computed Ac1
;(Component Amplification Factor)      =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8230731946457566
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.1430700700000000
;C1                                   =                0.0057391891725791
;C2                                   =                0.0006329988057992
;C3                                   =                0.0000000004270635
;Rd                                   =        748366520.0000000000000000
;R1                                   =     110053900000.0000000000000000
;Rl1                                  =            15267.4146651654810000
```

```
;
;
    (setq count    22.0000000000000000)
    (setq DesFreq 22000000.0000000000000000)
    (setq DesAmp    -0.0461538461520000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1859839.6602528745000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8230731946457566)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0057391891725791)
    (setq C2     0.0006329988057992)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                          =          23000000.0000000000000000
;Desired Amplification                      =                -0.0333333333320000
;Initial Result 1 Amplitude                 =           1020167.3008604913000000
;Secondary Result 2 Amplitude               =           1860975.3163427359000000
;Computed Ac1
;(Component Amplification Factor)           =               110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                        =                 1.8241864003806429
;Sign 1 (sign of Result 1)                  =                -1.0000000000000000
;Sign 2 (sign of Result 2)                  =                -0.9999999999999999
;L1                                         =                 0.1430700700000000
;C1                                         =                 0.0052509783733994
;C2                                         =                 0.0005791520264779
;C3                                         =                 0.0000000004270635
;Rd                                         =          748366520.0000000000000000
;R1                                         =       110053900000.0000000000000000
;Rl1                                        =            15267.4146651654810000
;
;
    (setq count    23.0000000000000000)
    (setq DesFreq 23000000.0000000000000000)
    (setq DesAmp    -0.0333333333320000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1860975.3163427359000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8241864003806429)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.1430700700000000)
    (setq C1     0.0052509783733994)
    (setq C2     0.0005791520264779)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                    =          24000000.0000000000000000
;Desired Amplification                =               -0.0435897435880000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1861973.0742345443000000
;Computed Ac1
;(Component Amplification Factor)      =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8251644339747082
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -0.9999999999999999
;L1                                   =                0.1430700700000000
;C1                                   =                0.0048225131241811
;C2                                   =                0.0005318948298729
;C3                                   =                0.0000000004270635
;Rd                                   =          748366520.0000000000000000
;R1                                   =       110053900000.0000000000000000
;R11                                  =            15267.4146651654810000
;
;
    (setq count    24.0000000000000000)
    (setq DesFreq 24000000.0000000000000000)
    (setq DesAmp    -0.0435897435880000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1861973.0742345443000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8251644339747082)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.1430700700000000)
    (setq C1     0.0048225131241811)
    (setq C2     0.0005318948298729)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq R11 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                    =          25000000.0000000000000000
;Desired Amplification                =               -0.0128205128200000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1862854.2146949752000000
;Computed Ac1
;(Component Amplification Factor)      =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8260281555032141
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -0.9999999999999999
;L1                                   =                0.1430700700000000
;C1                                   =                0.0044444280952453
;C2                                   =                0.0004901942752109
;C3                                   =                0.0000000004270635
```

```
;Rd                                          =          748366520.0000000000000000
;Rl                                          =       110053900000.0000000000000000
;Rll                                         =            15267.4146651654810000
;
;
    (setq count    25.0000000000000000)
    (setq DesFreq 25000000.0000000000000000)
    (setq DesAmp    -0.0128205128200000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1862854.2146949752000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8260281555032141)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.1430700700000000)
    (setq C1     0.0044444280952453)
    (setq C2     0.0004901942752109)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq Rl 110053900000.0000000000000000)
    (setq Rll 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd Rl Rll)
;
;
;Desired Frequency                           =          26000000.0000000000000000
;Desired Amplification                       =              -0.0205128205120000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1863636.2071948766000000
;Computed Ac1
;(Component Amplification Factor)            =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                1.8267946890896580
;Sign 1 (sign of Result 1)                   =               -1.0000000000000000
;Sign 2 (sign of Result 2)                   =               -1.0000000000000000
;L1                                          =                0.1430700700000000
;C1                                          =                0.0041091236087697
;C2                                          =                0.0004532121627319
;C3                                          =                0.0000000004270635
;Rd                                          =          748366520.0000000000000000
;Rl                                          =       110053900000.0000000000000000
;Rll                                         =            15267.4146651654810000
;
;
    (setq count    26.0000000000000000)
    (setq DesFreq 26000000.0000000000000000)
    (setq DesAmp    -0.0205128205120000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1863636.2071948766000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8267946890896580)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0041091236087697)
    (setq C2     0.0004532121627319)
    (setq C3     0.0000000004270635)
```

```
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          27000000.0000000000000000
;Desired Amplification                =                 0.0102564102560000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1864333.5110127113000000
;Computed Ac1
;(Component Amplification Factor)      =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8274782081725049
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.1430700700000000
;C1                                   =                0.0038103807400937
;C2                                   =                0.0004202625816280
;C3                                   =                0.0000000004270635
;Rd                                   =          748366520.0000000000000000
;R1                                   =       110053900000.0000000000000000
;Rl1                                  =            15267.4146651654810000
;
;
    (setq count    27.0000000000000000)
    (setq DesFreq 27000000.0000000000000000)
    (setq DesAmp     0.0102564102560000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1864333.5110127113000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8274782081725049)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0038103807400937)
    (setq C2     0.0004202625816280)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          28000000.0000000000000000
;Desired Amplification                =                -0.0102564102560000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1864958.0632127249000000
;Computed Ac1
;(Component Amplification Factor)      =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8280904138367002
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.1430700700000000
```

```
;C1                                          =                  0.0035430708667453
;C2                                          =                  0.0003907798750087
;C3                                          =                  0.0000000004270635
;Rd                                          =          748366520.0000000000000000
;R1                                          =       110053900000.0000000000000000
;Rl1                                         =              15267.4146651654810000
;
;
    (setq count    28.0000000000000000)
    (setq DesFreq 28000000.0000000000000000)
    (setq DesAmp    -0.0102564102560000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1864958.0632127249000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8280904138367002)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0035430708667453)
    (setq C2     0.0003907798750087)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          29000000.0000000000000000
;Desired Amplification                       =                 0.0230769230760000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1865519.6523411965000000
;Computed Ac1
;(Component Amplification Factor)            =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                1.8286409011224600
;Sign 1 (sign of Result 1)                   =               -1.0000000000000000
;Sign 2 (sign of Result 2)                   =               -0.9999999999999999
;L1                                          =                0.1430700700000000
;C1                                          =                0.0033029340779171
;C2                                          =                0.0003642941997703
;C3                                          =                0.0000000004270635
;Rd                                          =          748366520.0000000000000000
;R1                                          =       110053900000.0000000000000000
;Rl1                                         =              15267.4146651654810000
;
;
    (setq count    29.0000000000000000)
    (setq DesFreq 29000000.0000000000000000)
    (setq DesAmp     0.0230769230760000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1865519.6523411965000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8286409011224600)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.1430700700000000)
```

```
    (setq C1     0.0033029340779171)
    (setq C2     0.0003642941997703)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          30000000.0000000000000000
;Desired Amplification                =                -0.0076923076920000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1866026.3269589243000000
;Computed Ac1
;(Component Amplification Factor)      =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8291375594816335
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -0.9999999999999999
;L1                                   =                0.1430700700000000
;C1                                   =                0.0030864083994759
;C2                                   =                0.0003404126911187
;C3                                   =                0.0000000004270635
;Rd                                   =          748366520.0000000000000000
;R1                                   =       110053900000.0000000000000000
;Rl1                                  =            15267.4146651654810000
;
;
    (setq count    30.0000000000000000)
    (setq DesFreq 30000000.0000000000000000)
    (setq DesAmp    -0.0076923076920000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1866026.3269589243000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8291375594816335)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.1430700700000000)
    (setq C1     0.0030864083994759)
    (setq C2     0.0003404126911187)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          31000000.0000000000000000
;Desired Amplification                =                 0.0282051282040000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1866484.8470407447000000
;Computed Ac1
;(Component Amplification Factor)      =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8295870152536757
```

```
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.1430700700000000
;C1                                       =                   0.0028904969401959
;C2                                       =                   0.0003188048095804
;C3                                       =                   0.0000000004270635
;Rd                                       =           748366520.0000000000000000
;R1                                       =        110053900000.0000000000000000
;Rl1                                      =             15267.4146651654810000
;
;
    (setq count    31.0000000000000000)
    (setq DesFreq 31000000.0000000000000000)
    (setq DesAmp     0.0282051282040000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1866484.8470407447000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8295870152536757)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0028904969401959)
    (setq C2     0.0003188048095804)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =           32000000.0000000000000000
;Desired Amplification                    =              -0.0128205128200000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1866901.0664281189000000
;Computed Ac1
;(Component Amplification Factor)         =                110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8299950065576736
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000000
;L1                                       =                  0.1430700700000000
;C1                                       =                  0.0027126636323519
;C2                                       =                  0.0002991908418035
;C3                                       =                  0.0000000004270635
;Rd                                       =           748366520.0000000000000000
;R1                                       =        110053900000.0000000000000000
;Rl1                                      =             15267.4146651654810000
;
;
    (setq count    32.0000000000000000)
    (setq DesFreq 32000000.0000000000000000)
    (setq DesAmp    -0.0128205128200000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1866901.0664281189000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8299950065576736)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0027126636323519)
    (setq C2     0.0002991908418035)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          33000000.0000000000000000
;Desired Amplification                =                 0.0307692307680000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1867280.1333635626000000
;Computed Ac1
;(Component Amplification Factor)     =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8303665798624875
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.1430700700000000
;C1                                   =                0.0025507507433685
;C2                                   =                0.0002813328025774
;C3                                   =                0.0000000004270635
;Rd                                   =           748366520.0000000000000000
;R1                                   =        110053900000.0000000000000000
;Rl1                                  =             15267.4146651654810000
;
;
    (setq count    33.0000000000000000)
    (setq DesFreq 33000000.0000000000000000)
    (setq DesAmp     0.0307692307680000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1867280.1333635626000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8303665798624875)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0025507507433685)
    (setq C2     0.0002813328025774)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          34000000.0000000000000000
;Desired Amplification                =                -0.0051282051280000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1867626.5091403883000000
;Computed Ac1
```

```
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.1430700700000000
;C1                                       =                   0.0028904969401959
;C2                                       =                   0.0003188048095804
;C3                                       =                   0.0000000004270635
;Rd                                       =           748366520.0000000000000000
;R1                                       =        110053900000.0000000000000000
;Rl1                                      =             15267.4146651654810000
;
;
    (setq count    31.0000000000000000)
    (setq DesFreq 31000000.0000000000000000)
    (setq DesAmp     0.0282051282040000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1866484.8470407447000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8295870152536757)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0028904969401959)
    (setq C2     0.0003188048095804)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =           32000000.0000000000000000
;Desired Amplification                    =                 -0.0128205128200000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1866901.0664281189000000
;Computed Ac1
;(Component Amplification Factor)         =                 110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                   1.8299950065576736
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.1430700700000000
;C1                                       =                   0.0027126636323519
;C2                                       =                   0.0002991908418035
;C3                                       =                   0.0000000004270635
;Rd                                       =           748366520.0000000000000000
;R1                                       =        110053900000.0000000000000000
;Rl1                                      =             15267.4146651654810000
;
;
    (setq count    32.0000000000000000)
    (setq DesFreq 32000000.0000000000000000)
    (setq DesAmp    -0.0128205128200000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1866901.0664281189000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8299950065576736)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0027126636323519)
    (setq C2     0.0002991908418035)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq R11 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                    =          33000000.0000000000000000
;Desired Amplification                =                 0.0307692307680000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1867280.1333635626000000
;Computed Ac1
;(Component Amplification Factor)      =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8303665798624875
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.1430700700000000
;C1                                   =                0.0025507507433685
;C2                                   =                0.0002813328025774
;C3                                   =                0.0000000004270635
;Rd                                   =          748366520.0000000000000000
;R1                                   =       110053900000.0000000000000000
;R11                                  =            15267.4146651654810000
;
;
    (setq count    33.0000000000000000)
    (setq DesFreq 33000000.0000000000000000)
    (setq DesAmp     0.0307692307680000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1867280.1333635626000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8303665798624875)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0025507507433685)
    (setq C2     0.0002813328025774)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq R11 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                    =          34000000.0000000000000000
;Desired Amplification                =                -0.0051282051280000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1867626.5091403883000000
;Computed Ac1
```

```
;(Component Amplification Factor)        =                110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8307061082678122
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.1430700700000000
;C1                                      =                  0.0024029131137788
;C2                                      =                  0.0002650271816668
;C3                                      =                  0.0000000004270635
;Rd                                      =          748366520.0000000000000000
;R1                                      =       110053900000.0000000000000000
;Rl1                                     =            15267.4146651654810000
;
;
    (setq count    34.0000000000000000)
    (setq DesFreq 34000000.0000000000000000)
    (setq DesAmp    -0.0051282051280000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1867626.5091403883000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8307061082678122)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0024029131137788)
    (setq C2     0.0002650271816668)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =          35000000.0000000000000000
;Desired Amplification                   =                 0.0333333333320000
;Initial Result 1 Amplitude              =           1020167.3008604913000000
;Secondary Result 2 Amplitude            =           1867943.9288025785000000
;Computed Ac1
;(Component Amplification Factor)        =                110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8310172529809612
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -0.9999999999999999
;L1                                      =                  0.1430700700000000
;C1                                      =                  0.0022675653547170
;C2                                      =                  0.0002500991200055
;C3                                      =                  0.0000000004270635
;Rd                                      =          748366520.0000000000000000
;R1                                      =       110053900000.0000000000000000
;Rl1                                     =            15267.4146651654810000
;
;
    (setq count    35.0000000000000000)
    (setq DesFreq 35000000.0000000000000000)
    (setq DesAmp     0.0333333333320000)
    (setq Init1Amp 1020167.3008604913000000)
```

```
    (setq Sec2Amp 1867943.9288025785000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8310172529809612)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.1430700700000000)
    (setq C1     0.0022675653547170)
    (setq C2     0.0002500991200055)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq R11 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                          =          36000000.0000000000000000
;Desired Amplification                      =                 0.0153846153840000
;Initial Result 1 Amplitude                 =           1020167.3008604913000000
;Secondary Result 2 Amplitude               =           1868235.4509168544000000
;Computed Ac1
;(Component Amplification Factor)           =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                        =                1.8313030121050089
;Sign 1 (sign of Result 1)                  =               -1.0000000000000000
;Sign 2 (sign of Result 2)                  =               -1.0000000000000000
;L1                                         =                0.1430700700000000
;C1                                         =                0.0021433391663027
;C2                                         =                0.0002363977021657
;C3                                         =                0.0000000004270635
;Rd                                         =          748366520.0000000000000000
;R1                                         =       110053900000.0000000000000000
;R11                                        =            15267.4146651654810000
;
;
    (setq count    36.0000000000000000)
    (setq DesFreq 36000000.0000000000000000)
    (setq DesAmp     0.0153846153840000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1868235.4509168544000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8313030121050089)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0021433391663027)
    (setq C2     0.0002363977021657)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq R11 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                          =          37000000.0000000000000000
;Desired Amplification                      =                 0.0384615384600000
```

```
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1868503.6434115386000000
;Computed Ac1
;(Component Amplification Factor)        =                110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8315659028038755
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.1430700700000000
;C1                                      =                  0.0020290486190857
;C2                                      =                  0.0002237921271050
;C3                                      =                  0.0000000004270635
;Rd                                      =          748366520.0000000000000000
;R1                                      =       110053900000.0000000000000000
;Rl1                                     =            15267.4146651654810000
;
;
    (setq count    37.0000000000000000)
    (setq DesFreq 37000000.0000000000000000)
    (setq DesAmp     0.0384615384600000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1868503.6434115386000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8315659028038755)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0020290486190857)
    (setq C2     0.0002237921271050)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =          38000000.0000000000000000
;Desired Amplification                   =                 0.0358974358960000
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1868750.8158125314000000
;Computed Ac1
;(Component Amplification Factor)        =                110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8318081889473192
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.1430700700000000
;C1                                      =                  0.0019236617448257
;C2                                      =                  0.0002121685747970
;C3                                      =                  0.0000000004270635
;Rd                                      =          748366520.0000000000000000
;R1                                      =       110053900000.0000000000000000
;Rl1                                     =            15267.4146651654810000
;
;
    (setq count    38.0000000000000000)
```

```
    (setq DesFreq 38000000.0000000000000000)
    (setq DesAmp     0.0358974358960000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1868750.8158125314000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8318081889473192)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0019236617448257)
    (setq C2     0.0002121685747970)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                          =          39000000.0000000000000000
;Desired Amplification                      =                 0.0333333333320000
;Initial Result 1 Amplitude                 =           1020167.3008604913000000
;Secondary Result 2 Amplitude               =           1868979.1539586161000000
;Computed Ac1
;(Component Amplification Factor)           =               110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                        =                 1.8320320131631043
;Sign 1 (sign of Result 1)                  =                -1.0000000000000000
;Sign 2 (sign of Result 2)                  =                -1.0000000000000000
;L1                                         =                 0.1430700700000000
;C1                                         =                 0.0018262771594532
;C2                                         =                 0.0002014276278809
;C3                                         =                 0.0000000004270635
;Rd                                         =       748366520.0000000000000000
;R1                                         =    110053900000.0000000000000000
;Rl1                                        =           15267.4146651654810000
;
;
    (setq count    39.0000000000000000)
    (setq DesFreq 39000000.0000000000000000)
    (setq DesAmp     0.0333333333320000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1868979.1539586161000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8320320131631043)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0018262771594532)
    (setq C2     0.0002014276278809)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
```

```
;
;Desired Frequency                    =          40000000.0000000000000000
;Desired Amplification                =                 0.0307692307680000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1869190.6883091333000000
;Computed Ac1
;(Component Amplification Factor)     =               110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8322393657711900
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -0.9999999999999999
;L1                                   =                 0.1430700700000000
;C1                                   =                 0.0017361047247052
;C2                                   =                 0.0001914821387542
;C3                                   =                 0.0000000004270635
;Rd                                   =       748366520.0000000000000000
;R1                                   =    110053900000.0000000000000000
;Rl1                                  =           15267.4146651654810000
;
;
    (setq count    40.0000000000000000)
    (setq DesFreq 40000000.0000000000000000)
    (setq DesAmp     0.0307692307680000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1869190.6883091333000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8322393657711900)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.1430700700000000)
    (setq C1     0.0017361047247052)
    (setq C2     0.0001914821387542)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          41000000.0000000000000000
;Desired Amplification                =                 0.0205128205120000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1869387.1646674012000000
;Computed Ac1
;(Component Amplification Factor)     =               110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8324319580627704
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.1430700700000000
;C1                                   =                 0.0016524494702726
;C2                                   =                 0.0001822554562801
;C3                                   =                 0.0000000004270635
;Rd                                   =       748366520.0000000000000000
;R1                                   =    110053900000.0000000000000000
;Rl1                                  =           15267.4146651654810000
```

```
;
;
    (setq count    41.0000000000000000)
    (setq DesFreq 41000000.0000000000000000)
    (setq DesAmp     0.0205128205120000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1869387.1646674012000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8324319580627704)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0016524494702726)
    (setq C2     0.0001822554562801)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          42000000.0000000000000000
;Desired Amplification                =                 0.0205128205120000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1869569.9649917786000000
;Computed Ac1
;(Component Amplification Factor)     =               110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8326111446767925
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.1430700700000000
;C1                                   =                 0.0015746981629979
;C2                                   =                 0.0001736799444483
;C3                                   =                 0.0000000004270635
;Rd                                   =         748366520.0000000000000000
;R1                                   =      110053900000.0000000000000000
;Rl1                                  =           15267.4146651654810000
;
;
    (setq count    42.0000000000000000)
    (setq DesFreq 42000000.0000000000000000)
    (setq DesAmp     0.0205128205120000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1869569.9649917786000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8326111446767925)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0015746981629979)
    (setq C2     0.0001736799444483)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          43000000.0000000000000000
;Desired Amplification                =                 0.0256410256400000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1869740.1762832019000000
;Computed Ac1
;(Component Amplification Factor)     =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8327779911256834
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -0.9999999999999999
;L1                                   =                0.1430700700000000
;C1                                   =                0.0015023080365215
;C2                                   =                0.0001656957393222
;C3                                   =                0.0000000004270635
;Rd                                   =        748366520.0000000000000000
;R1                                   =     110053900000.0000000000000000
;Rl1                                  =            15267.4146651654810000
;
;
    (setq count    43.0000000000000000)
    (setq DesFreq 43000000.0000000000000000)
    (setq DesAmp     0.0256410256400000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1869740.1762832019000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8327779911256834)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.1430700700000000)
    (setq C1     0.0015023080365215)
    (setq C2     0.0001656957393222)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          44000000.0000000000000000
;Desired Amplification                =                 0.0435897435880000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1869898.7707506022000000
;Computed Ac1
;(Component Amplification Factor)     =              110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8329334503991443
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.1430700700000000
;C1                                   =                0.0014347972931448
;C2                                   =                0.0001582497014498
;C3                                   =                0.0000000004270635
```

```
;Rd                                          =          748366520.0000000000000000
;R1                                          =       110053900000.0000000000000000
;Rl1                                         =            15267.4146651654810000
;
;
    (setq count    44.0000000000000000)
    (setq DesFreq 44000000.0000000000000000)
    (setq DesAmp     0.0435897435880000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1869898.7707506022000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8329334503991443)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.1430700700000000)
    (setq C1     0.0014347972931448)
    (setq C2     0.0001582497014498)
    (setq C3     0.0000000004270635)
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          45000000.0000000000000000
;Desired Amplification                       =                 0.0820512820480000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1870046.7588659790000000
;Computed Ac1
;(Component Amplification Factor)            =                110.0539000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                  1.8330785129935365
;Sign 1 (sign of Result 1)                   =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                 -0.9999999999999999
;L1                                          =                  0.1430700700000000
;C1                                          =                  0.0013717370664337
;C2                                          =                  0.0001512945293861
;C3                                          =                  0.0000000004270635
;Rd                                          =          748366520.0000000000000000
;R1                                          =       110053900000.0000000000000000
;Rl1                                         =            15267.4146651654810000
;
;
    (setq count    45.0000000000000000)
    (setq DesFreq 45000000.0000000000000000)
    (setq DesAmp     0.0820512820480000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1870046.7588659790000000)
    (setq CompAc1   110.0539000000000000)
    (setq CheckAmp     1.8330785129935365)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.1430700700000000)
    (setq C1     0.0013717370664337)
    (setq C2     0.0001512945293861)
    (setq C3     0.0000000004270635)
```

```
    (setq Rd 748366520.0000000000000000)
    (setq R1 110053900000.0000000000000000)
    (setq Rl1 15267.4146651654810000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          46000000.0000000000000000
;Desired Amplification                =                 0.1846153846080000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1869955.3626395294000000
;Computed Ac1
;(Component Amplification Factor)      =              1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8329889235444603
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 1.3007221499999999
;C1                                   =                 0.0001443924521949
;C2                                   =                 0.0000159256381097
;C3                                   =                 0.0000000000469739
;Rd                                   =       6803777400.0000000000000000
;R1                                   =    1000555499999.9999000000000000
;Rl1                                  =          138803.7653732578300000
;
;
    (setq count    46.0000000000000000)
    (setq DesFreq 46000000.0000000000000000)
    (setq DesAmp     0.1846153846080000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1869955.3626395294000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8329889235444603)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0001443924521949)
    (setq C2     0.0000159256381097)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          47000000.0000000000000000
;Desired Amplification                =                 0.5923076922840000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1871934.8730013648000000
;Computed Ac1
;(Component Amplification Factor)      =                 6.7010000000000005
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8349293017159285
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0087113000000000
```

```
;C1                                          =                  0.0206521849248375
;C2                                          =                  0.0022778145137688
;C3                                          =                  0.0000000070138785
;Rd                                          =           45566800.0000000000000000
;R1                                          =         6701000000.0000010000000000
;Rl1                                         =                929.6076347251111000
;
;
    (setq count    47.0000000000000000)
    (setq DesFreq 47000000.0000000000000000)
    (setq DesAmp     0.5923076922840000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1871934.8730013648000000)
    (setq CompAc1     6.7010000000000005)
    (setq CheckAmp     1.8349293017159285)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0087113000000000)
    (setq C1     0.0206521849248375)
    (setq C2     0.0022778145137688)
    (setq C3     0.0000000070138785)
    (setq Rd 45566800.0000000000000000)
    (setq R1 6701000000.0000010000000000)
    (setq Rl1   929.6076347251111000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          48000000.0000000000000000
;Desired Amplification                       =                 2.7820512819399998
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1873160.2147111935000000
;Computed Ac1
;(Component Amplification Factor)            =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                 1.8361304201097401
;Sign 1 (sign of Result 1)                   =                -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                -1.0000000000000000
;L1                                          =                 0.0005778500000000
;C1                                          =                 0.2985018993910634
;C2                                          =                 0.0329230036093085
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =                61.6640193456665950
;
;
    (setq count    48.0000000000000000)
    (setq DesFreq 48000000.0000000000000000)
    (setq DesAmp     2.7820512819399998)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873160.2147111935000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361304201097401)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
```

```
    (setq C1     0.2985018993910634)
    (setq C2     0.0329230036093085)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          49000000.0000000000000000
;Desired Amplification                =                19.3999999992240010
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873166.0246433257000000
;Computed Ac1
;(Component Amplification Factor)      =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8361361151875253
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.2864424723852604
;C2                                   =                 0.0315929197483743
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count    49.0000000000000000)
    (setq DesFreq 49000000.0000000000000000)
    (setq DesAmp    19.3999999992240010)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873166.0246433257000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361361151875253)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.2864424723852604)
    (setq C2     0.0315929197483743)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          50000000.0000000000000000
;Desired Amplification                =               238.0871794776560100
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873171.4890370795000000
;Computed Ac1
;(Component Amplification Factor)      =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8361414715577493
```

```
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.2750993504788040
;C2                                       =                   0.0303418401263387
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count    50.0000000000000000)
    (setq DesFreq 50000000.0000000000000000)
    (setq DesAmp   238.0871794776560100)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873171.4890370795000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361414715577493)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.2750993504788040)
    (setq C2     0.0303418401263387)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =           51000000.0000000000000000
;Desired Amplification                    =              11700.3641020960880000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873176.6343949588000000
;Computed Ac1
;(Component Amplification Factor)         =                   0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                   1.8361465151989982
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.2644169074190735
;C2                                       =                   0.0291636294947507
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count    51.0000000000000000)
    (setq DesFreq 51000000.0000000000000000)
    (setq DesAmp 11700.3641020960880000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873176.6343949588000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361465151989982)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.2644169074190735)
    (setq C2     0.0291636294947507)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          52000000.0000000000000000
;Desired Amplification                =           -274882.3435787482900000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873181.4853857281000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8361512702923688
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.2543448136823263
;C2                                   =                 0.0280527368031977
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count    52.0000000000000000)
    (setq DesFreq 52000000.0000000000000000)
    (setq DesAmp -274882.3435787482900000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873181.4853857281000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361512702923688)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.2543448136823263)
    (setq C2     0.0280527368031977)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          53000000.0000000000000000
;Desired Amplification                =           2538474.7101548715000000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873186.0647524083000000
;Computed Ac1
```

```
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8361557591312840
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -0.9999999999999999
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.2448374425763653
;C2                                      =                  0.0270041296959226
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count    53.0000000000000000)
    (setq DesFreq 53000000.0000000000000000)
    (setq DesAmp 2538474.7101548715000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873186.0647524083000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361557591312840)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.2448374425763653)
    (setq C2     0.0270041296959226)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =           54000000.0000000000000000
;Desired Amplification                   =          -14271620.7481470850000000
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1873190.3928855842000000
;Computed Ac1
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8361600017032349
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.2358533526052847
;C2                                      =                  0.0260132374197005
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count    54.0000000000000000)
    (setq DesFreq 54000000.0000000000000000)
    (setq DesAmp -14271620.7481470850000000)
    (setq Init1Amp 1020167.3008604913000000)
```

```
    (setq Sec2Amp 1873190.3928855842000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361600017032349)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.2358533526052847)
    (setq C2     0.0260132374197005)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                          =          55000000.0000000000000000
;Desired Amplification                      =          56488792.9464583990000000
;Initial Result 1 Amplitude                 =           1020167.3008604913000000
;Secondary Result 2 Amplitude               =           1873194.4876616735000000
;Computed Ac1
;(Component Amplification Factor)           =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                        =                1.8361640155312471
;Sign 1 (sign of Result 1)                  =               -1.0000000000000000
;Sign 2 (sign of Result 2)                  =               -1.0000000000000000
;L1                                         =                0.0005778500000000
;C1                                         =                0.2273548351064496
;C2                                         =                0.0250759009308584
;C3                                         =                0.0000001057367829
;Rd                                         =          3022600.0000000000000000
;R1                                         =        444500000.0000000000000000
;Rl1                                        =              61.6640193456665950
;
;
    (setq count    55.0000000000000000)
    (setq DesFreq 55000000.0000000000000000)
    (setq DesAmp 56488792.9464583990000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873194.4876616735000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361640155312471)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.2273548351064496)
    (setq C2     0.0250759009308584)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                          =          56000000.0000000000000000
;Desired Amplification                      =        -168898631.1727312200000000
```

```
;Initial Result 1 Amplitude                =          1020167.3008604913000000
;Secondary Result 2 Amplitude              =          1873198.3648843204000000
;Computed Ac1
;(Component Amplification Factor)          =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =                1.8361678161065484
;Sign 1 (sign of Result 1)                 =               -1.0000000000000000
;Sign 2 (sign of Result 2)                 =               -1.0000000000000000
;L1                                        =                0.0005778500000000
;C1                                        =                0.2193075179199649
;C2                                        =                0.0241883291823491
;C3                                        =                0.0000001057367829
;Rd                                        =          3022600.0000000000000000
;R1                                        =        444500000.0000000000000000
;Rl1                                       =               61.6640193456665950
;
;
    (setq count    56.0000000000000000)
    (setq DesFreq 56000000.0000000000000000)
    (setq DesAmp -168898631.1727312200000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873198.3648843204000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361678161065484)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.2193075179199649)
    (setq C2     0.0241883291823491)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                         =          57000000.0000000000000000
;Desired Amplification                     =         396428943.8738864700000000
;Initial Result 1 Amplitude                =          1020167.3008604913000000
;Secondary Result 2 Amplitude              =          1873202.0391123551000000
;Computed Ac1
;(Component Amplification Factor)          =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =                1.8361714177001611
;Sign 1 (sign of Result 1)                 =               -1.0000000000000000
;Sign 2 (sign of Result 2)                 =               -1.0000000000000000
;L1                                        =                0.0005778500000000
;C1                                        =                0.2116800172967099
;C2                                        =                0.0233470607312548
;C3                                        =                0.0000001057367829
;Rd                                        =          3022600.0000000000000000
;R1                                        =        444500000.0000000000000000
;Rl1                                       =               61.6640193456665950
;
;
    (setq count    57.0000000000000000)
```

```
    (setq DesFreq 57000000.0000000000000000)
    (setq DesAmp 396428943.8738864700000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873202.0391123551000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361714177001611)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.2116800172967099)
    (setq C2     0.0233470607312548)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          58000000.0000000000000000
;Desired Amplification                    =        -745168544.8291677200000000
;Initial Result 1 Amplitude               =           1020167.3008604913000000
;Secondary Result 2 Amplitude             =           1873205.5242968213000000
;Computed Ac1
;(Component Amplification Factor)         =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                1.8361748339873361
;Sign 1 (sign of Result 1)                =               -1.0000000000000000
;Sign 2 (sign of Result 2)                =               -0.9999999999999999
;L1                                       =                0.0005778500000000
;C1                                       =                0.2044436314497652
;C2                                       =                0.0225489299393123
;C3                                       =                0.0000001057367829
;Rd                                       =           3022600.0000000000000000
;R1                                       =         444500000.0000000000000000
;Rl1                                      =               61.6640193456665950
;
;
    (setq count    58.0000000000000000)
    (setq DesFreq 58000000.0000000000000000)
    (setq DesAmp -745168544.8291677200000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873205.5242968213000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361748339873361)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.2044436314497652)
    (setq C2     0.0225489299393123)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
```

```
;
;Desired Frequency                    =          59000000.0000000000000000
;Desired Amplification                =        1127483420.3959265000000000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873208.8337993703000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8361780780655832
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =                0.1975720701513962
;C2                                   =                0.0217910371490510
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
;
;
     (setq count    59.0000000000000000)
     (setq DesFreq 59000000.0000000000000000)
     (setq DesAmp 1127483420.3959265000000000)
     (setq Init1Amp 1020167.3008604913000000)
     (setq Sec2Amp 1873208.8337993703000000)
     (setq CompAc1     0.4445000000000000)
     (setq CheckAmp     1.8361780780655832)
     (setq Sign1    -1.0000000000000000)
     (setq Sign2    -1.0000000000000000)
     (setq L1     0.0005778500000000)
     (setq C1     0.1975720701513962)
     (setq C2     0.0217910371490510)
     (setq C3     0.0000001057367829)
     (setq Rd 3022600.0000000000000000)
     (setq R1 444500000.0000000000000000)
     (setq Rl1    61.6640193456665950)
     (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          60000000.0000000000000000
;Desired Amplification                =       -1354577398.3355606000000000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873211.9798926418000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8361811619649286
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =                0.1910412156102806
;C2                                   =                0.0210707223099574
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
```

```
;
;
    (setq count    60.0000000000000000)
    (setq DesFreq 60000000.0000000000000000)
    (setq DesAmp -1354577398.3355606000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873211.9798926418000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361811619649286)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1910412156102806)
    (setq C2     0.0210707223099574)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          61000000.0000000000000000
;Desired Amplification                    =        1224620320.9330666000000000
;Initial Result 1 Amplitude               =           1020167.3008604913000000
;Secondary Result 2 Amplitude             =           1873214.9732851491000000
;Computed Ac1
;(Component Amplification Factor)         =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                1.8361840961821936
;Sign 1 (sign of Result 1)                =               -1.0000000000000000
;Sign 2 (sign of Result 2)                =               -1.0000000000000000
;L1                                       =                0.0005778500000000
;C1                                       =                0.1848289105608735
;C2                                       =                0.0203855416059787
;C3                                       =                0.0000001057367829
;Rd                                       =          3022600.0000000000000000
;R1                                       =        444500000.0000000000000000
;Rl1                                      =              61.6640193456665950
;
;
    (setq count    61.0000000000000000)
    (setq DesFreq 61000000.0000000000000000)
    (setq DesAmp 1224620320.9330666000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873214.9732851491000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361840961821936)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1848289105608735)
    (setq C2     0.0203855416059787)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          62000000.0000000000000000
;Desired Amplification                =        -672000572.2679917800000000
;Initial Result 1 Amplitude           =          1020167.3008604913000000
;Secondary Result 2 Amplitude         =          1873217.8231798760000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8361868897384312
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =                0.1789147700824688
;C2                                   =                0.0197332467002723
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
;
;
    (setq count    62.0000000000000000)
    (setq DesFreq 62000000.0000000000000000)
    (setq DesAmp -672000572.2679917800000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873217.8231798760000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361868897384312)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1789147700824688)
    (setq C2     0.0197332467002723)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          63000000.0000000000000000
;Desired Amplification                =        -142365794.2840489700000000
;Initial Result 1 Amplitude           =          1020167.3008604913000000
;Secondary Result 2 Amplitude         =          1873220.5378961507000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8361895507885087
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =                0.1732800141589847
;C2                                   =                0.0191117662675351
;C3                                   =                0.0000001057367829
```

```
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =              61.6640193456665950
;
;
    (setq count    63.0000000000000000)
    (setq DesFreq 63000000.0000000000000000)
    (setq DesAmp -142365794.2840489700000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873220.5378961507000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361895507885087)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1732800141589847)
    (setq C2     0.0191117662675351)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          64000000.0000000000000000
;Desired Amplification                       =         899740206.2024720900000000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1873223.1255801362000000
;Computed Ac1
;(Component Amplification Factor)            =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                1.8361920873175497
;Sign 1 (sign of Result 1)                   =               -1.0000000000000000
;Sign 2 (sign of Result 2)                   =               -1.0000000000000000
;L1                                          =                0.0005778500000000
;C1                                          =                0.1679073184074732
;C2                                          =                0.0185191895302360
;C3                                          =                0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =              61.6640193456665950
;
;
    (setq count    64.0000000000000000)
    (setq DesFreq 64000000.0000000000000000)
    (setq DesAmp 899740206.2024720900000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873223.1255801362000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361920873175497)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1679073184074732)
    (setq C2     0.0185191895302360)
    (setq C3     0.0000001057367829)
```

```
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          65000000.0000000000000000
;Desired Amplification                =       -1316611182.0088742000000000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873225.5944434453000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8361945073748356
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =                0.1627806807566888
;C2                                   =                0.0179537515540466
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
;
;
    (setq count    65.0000000000000000)
    (setq DesFreq 65000000.0000000000000000)
    (setq DesAmp -1316611182.0088742000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873225.5944434453000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361945073748356)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1627806807566888)
    (setq C2     0.0179537515540466)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          66000000.0000000000000000
;Desired Amplification                =        1309355275.0373695000000000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873227.9523774516000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8361968186957378
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
```

```
;C1                                          =                0.1578853021572567
;C2                                          =                0.0174138200908739
;C3                                          =                0.0000001057367829
;Rd                                          =          3022600.0000000000000000
;R1                                          =        444500000.0000000000000000
;Rl1                                         =               61.6640193456665950
;
;
    (setq count    66.0000000000000000)
    (setq DesFreq 66000000.0000000000000000)
    (setq DesAmp 1309355275.0373695000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873227.9523774516000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361968186957378)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1578853021572567)
    (setq C2     0.0174138200908739)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          67000000.0000000000000000
;Desired Amplification                       =       -1005293447.6879935000000000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1873230.2063337530000000
;Computed Ac1
;(Component Amplification Factor)            =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                1.8361990280944309
;Sign 1 (sign of Result 1)                   =               -1.0000000000000000
;Sign 2 (sign of Result 2)                   =               -1.0000000000000000
;Ll                                          =                0.0005778500000000
;C1                                          =                0.1532074796607285
;C2                                          =                0.0168978837861098
;C3                                          =                0.0000001057367829
;Rd                                          =          3022600.0000000000000000
;R1                                          =        444500000.0000000000000000
;Rl1                                         =               61.6640193456665950
;
;
    (setq count    67.0000000000000000)
    (setq DesFreq 67000000.0000000000000000)
    (setq DesAmp -1005293447.6879935000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873230.2063337530000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8361990280944309)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
```

```
    (setq C1     0.1532074796607285)
    (setq C2     0.0168978837861098)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          68000000.0000000000000000
;Desired Amplification                =         617406279.2342782000000000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873232.3620615329000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8362011412064452
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =                0.1487345104232289
;C2                                   =                0.0164045415907973
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
;
;
    (setq count    68.0000000000000000)
    (setq DesFreq 68000000.0000000000000000)
    (setq DesAmp 617406279.2342782000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873232.3620615329000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362011412064452)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1487345104232289)
    (setq C2     0.0164045415907973)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          69000000.0000000000000000
;Desired Amplification                =        -305220888.2621501700000000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873234.4244740161000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8362031628478774
```

```
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.1444546053763936
;C2                                       =                   0.0159324932400434
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count    69.0000000000000000)
    (setq DesFreq 69000000.0000000000000000)
    (setq DesAmp -305220888.2621501700000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873234.4244740161000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362031628478774)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1444546053763936)
    (setq C2     0.0159324932400434)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =           70000000.0000000000000000
;Desired Amplification                    =          120234122.8387803900000000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873236.3983588782000000
;Computed Ac1
;(Component Amplification Factor)         =                   0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                   1.8362050977117574
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.1403568114687776
;C2                                       =                   0.0154805306767034
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count    70.0000000000000000)
    (setq DesFreq 70000000.0000000000000000)
    (setq DesAmp 120234122.8387803900000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873236.3983588782000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362050977117574)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1403568114687776)
    (setq C2     0.0154805306767034)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          71000000.0000000000000000
;Desired Amplification                =         -36793137.1190411000000000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873238.2888413137000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8362069508219618
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -0.9999999999999999
;L1                                   =                0.0005778500000000
;C1                                   =                0.1364309415189467
;C2                                   =                0.0150475303145897
;C3                                   =                0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
;
;
    (setq count    71.0000000000000000)
    (setq DesFreq 71000000.0000000000000000)
    (setq DesAmp -36793137.1190411000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873238.2888413137000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362069508219618)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.1364309415189467)
    (setq C2     0.0150475303145897)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          72000000.0000000000000000
;Desired Amplification                =           8345369.3381277239000000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873240.1012226944000000
;Computed Ac1
```

```
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362087273750618
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.1326675108404726
;C2                                      =                  0.0146324460485815
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count    72.0000000000000000)
    (setq DesFreq 72000000.0000000000000000)
    (setq DesAmp 8345369.3381277239000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873240.1012226944000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362087273750618)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1326675108404726)
    (setq C2     0.0146324460485815)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =           73000000.0000000000000000
;Desired Amplification                   =           -1284878.4204614253000000
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1873241.8403638809000000
;Computed Ac1
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362104321358250
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.1290576799018597
;C2                                      =                  0.0142343029303522
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count    73.0000000000000000)
    (setq DesFreq 73000000.0000000000000000)
    (setq DesAmp -1284878.4204614253000000)
    (setq Init1Amp 1020167.3008604913000000)
```

```
    (setq Sec2Amp 1873241.8403638809000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362104321358250)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1290576799018597)
    (setq C2     0.0142343029303522)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          74000000.0000000000000000
;Desired Amplification                =            110255.7025596923500000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873243.5101800512000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8362120689420323
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =                0.1255932023734496
;C2                                   =                0.0138521914382481
;C3                                   =                0.0000001057367829
;Rd                                   =          3022600.0000000000000000
;R1                                   =        444500000.0000000000000000
;Rl1                                  =              61.6640193456665950
;
;
    (setq count    74.0000000000000000)
    (setq DesFreq 74000000.0000000000000000)
    (setq DesAmp 110255.7025596923500000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873243.5101800512000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362120689420323)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1255932023734496)
    (setq C2     0.0138521914382481)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          75000000.0000000000000000
;Desired Amplification                =             -2331.0871793939364000
```

```
;Initial Result 1 Amplitude                =          1020167.3008604913000000
;Secondary Result 2 Amplitude              =          1873245.1137135255000000
;Computed Ac1
;(Component Amplification Factor)          =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =                1.8362136407758607
;Sign 1 (sign of Result 1)                 =               -1.0000000000000000
;Sign 2 (sign of Result 2)                 =               -0.9999999999999999
;L1                                        =                0.0005778500000000
;C1                                        =                0.1222663779905796
;C2                                        =                0.0134852622783727
;C3                                        =                0.0000001057367829
;Rd                                        =          3022600.0000000000000000
;R1                                        =        444500000.0000000000000000
;Rl1                                       =               61.6640193456665950
;
;
    (setq count    75.0000000000000000)
    (setq DesFreq 75000000.0000000000000000)
    (setq DesAmp -2331.0871793939364000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873245.1137135255000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362136407758607)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.1222663779905796)
    (setq C2     0.0134852622783727)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                         =          76000000.0000000000000000
;Desired Amplification                     =              -95.7205128166840070
;Initial Result 1 Amplitude                =          1020167.3008604913000000
;Secondary Result 2 Amplitude              =          1873246.6537407630000000
;Computed Ac1
;(Component Amplification Factor)          =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =                1.8362151503588833
;Sign 1 (sign of Result 1)                 =               -1.0000000000000000
;Sign 2 (sign of Result 2)                 =               -1.0000000000000000
;L1                                        =                0.0005778500000000
;C1                                        =                0.1190700097293993
;C2                                        =                0.0131327216613308
;C3                                        =                0.0000001057367829
;Rd                                        =          3022600.0000000000000000
;R1                                        =        444500000.0000000000000000
;Rl1                                       =               61.6640193456665950
;
;
    (setq count    76.0000000000000000)
```

```
    (setq DesFreq 76000000.0000000000000000)
    (setq DesAmp   -95.7205128166840070)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873246.6537407630000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362151503588833)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1190700097293993)
    (setq C2     0.0131327216613308)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          77000000.0000000000000000
;Desired Amplification                    =                -9.7923076919160010
;Initial Result 1 Amplitude               =           1020167.3008604913000000
;Secondary Result 2 Amplitude             =           1873248.1333981298000000
;Computed Ac1
;(Component Amplification Factor)         =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8362166007654641
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -1.0000000000000000
;L1                                       =                 0.0005778500000000
;C1                                       =                 0.1159973648502294
;C2                                       =                 0.0127938270055400
;C3                                       =                 0.0000001057367829
;Rd                                       =           3022600.0000000000000000
;R1                                       =         444500000.0000000000000000
;Rl1                                      =                61.6640193456665950
;
;
    (setq count    77.0000000000000000)
    (setq DesFreq 77000000.0000000000000000)
    (setq DesAmp    -9.7923076919160010)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873248.1333981298000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362166007654641)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1159973648502294)
    (setq C2     0.0127938270055400)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
```

```
;
;Desired Frequency                    =          78000000.0000000000000000
;Desired Amplification                =                -1.5999999999360002
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873249.5562928773000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362179955315445
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -0.9999999999999999
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.1130421394143672
;C2                                   =                 0.0124678830236434
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count    78.0000000000000000)
    (setq DesFreq 78000000.0000000000000000)
    (setq DesAmp    -1.5999999999360002)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873249.5562928773000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362179955315445)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.1130421394143672)
    (setq C2     0.0124678830236434)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          79000000.0000000000000000
;Desired Amplification                =                -0.3999999999840000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873250.9260169398000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362193381780509
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.1101984259248534
;C2                                   =                 0.0121542381534765
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
```

```
;
;
    (setq count    79.0000000000000000)
    (setq DesFreq 79000000.0000000000000000)
    (setq DesAmp    -0.3999999999840000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873250.9260169398000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362193381780509)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1101984259248534)
    (setq C2     0.0121542381534765)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          80000000.0000000000000000
;Desired Amplification                =                -0.0923076923040000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873252.2455049423000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362206315815950
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -0.9999999999999999
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.1074606837807828
;C2                                   =                 0.0118522812993510
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count    80.0000000000000000)
    (setq DesFreq 80000000.0000000000000000)
    (setq DesAmp    -0.0923076923040000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873252.2455049423000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362206315815950)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.1074606837807828)
    (setq C2     0.0118522812993510)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
```

```
;
;Desired Frequency                    =          78000000.0000000000000000
;Desired Amplification                =                -1.5999999999360002
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873249.5562928773000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362179955315445
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -0.9999999999999999
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.1130421394143672
;C2                                   =                 0.0124678830236434
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
     (setq count    78.0000000000000000)
     (setq DesFreq 78000000.0000000000000000)
     (setq DesAmp    -1.5999999999360002)
     (setq Init1Amp 1020167.3008604913000000)
     (setq Sec2Amp 1873249.5562928773000000)
     (setq CompAc1     0.4445000000000000)
     (setq CheckAmp     1.8362179955315445)
     (setq Sign1    -1.0000000000000000)
     (setq Sign2    -0.9999999999999999)
     (setq L1     0.0005778500000000)
     (setq C1     0.1130421394143672)
     (setq C2     0.0124678830236434)
     (setq C3     0.0000001057367829)
     (setq Rd 3022600.0000000000000000)
     (setq R1 444500000.0000000000000000)
     (setq Rl1    61.6640193456665950)
     (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          79000000.0000000000000000
;Desired Amplification                =                -0.3999999999840000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873250.9260169398000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362193381780509
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.1101984259248534
;C2                                   =                 0.0121542381534765
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
```

```
;
;
    (setq count    79.0000000000000000)
    (setq DesFreq 79000000.0000000000000000)
    (setq DesAmp    -0.3999999999840000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873250.9260169398000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362193381780509)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1101984259248534)
    (setq C2     0.0121542381534765)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rll)
;
;
;Desired Frequency                        =          80000000.0000000000000000
;Desired Amplification                    =                -0.0923076923040000
;Initial Result 1 Amplitude               =           1020167.3008604913000000
;Secondary Result 2 Amplitude             =           1873252.2455049423000000
;Computed Ac1
;(Component Amplification Factor)         =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8362206315815950
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -0.9999999999999999
;L1                                       =                 0.0005778500000000
;C1                                       =                 0.1074606837807828
;C2                                       =                 0.0118522812993510
;C3                                       =                 0.0000001057367829
;Rd                                       =           3022600.0000000000000000
;R1                                       =         444500000.0000000000000000
;Rll                                      =                61.6640193456665950
;
;
    (setq count    80.0000000000000000)
    (setq DesFreq 80000000.0000000000000000)
    (setq DesAmp    -0.0923076923040000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873252.2455049423000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362206315815950)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.1074606837807828)
    (setq C2     0.0118522812993510)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          81000000.0000000000000000
;Desired Amplification                =               -0.0794871794840000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873253.5168135646000000
;Computed Ac1
;(Component Amplification Factor)      =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362218777581989
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.1048237122690154
;C2                                   =                 0.0115614388532002
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count    81.0000000000000000)
    (setq DesFreq 81000000.0000000000000000)
    (setq DesAmp    -0.0794871794840000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873253.5168135646000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362218777581989)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.1048237122690154)
    (setq C2     0.0115614388532002)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          82000000.0000000000000000
;Desired Amplification                =               -0.0051282051280000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873254.7415278507000000
;Computed Ac1
;(Component Amplification Factor)      =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362230782615723
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -0.9999999999999999
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.1022826258472651
;C2                                   =                 0.0112811719684483
;C3                                   =                 0.0000001057367829
```

```
;Rd                                          =            3022600.0000000000000000
;R1                                          =          444500000.0000000000000000
;Rl1                                         =                 61.6640193456665950
;
;
    (setq count    82.0000000000000000)
    (setq DesFreq 82000000.0000000000000000)
    (setq DesAmp    -0.0051282051280000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873254.7415278507000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362230782615723)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.1022826258472651)
    (setq C2     0.0112811719684483)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =           83000000.0000000000000000
;Desired Amplification                       =                 -0.0538461538440000
;Initial Result 1 Amplitude                  =            1020167.3008604913000000
;Secondary Result 2 Amplitude                =            1873255.9214477378000000
;Computed Ac1
;(Component Amplification Factor)            =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                  1.8362242348560702
;Sign 1 (sign of Result 1)                   =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                 -1.0000000000000002
;L1                                          =                  0.0005778500000000
;C1                                          =                  0.0998328314990579
;C2                                          =                  0.0110109740623961
;C3                                          =                  0.0000001057367829
;Rd                                          =            3022600.0000000000000000
;R1                                          =          444500000.0000000000000000
;Rl1                                         =                 61.6640193456665950
;
;
    (setq count    83.0000000000000000)
    (setq DesFreq 83000000.0000000000000000)
    (setq DesAmp    -0.0538461538440000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873255.9214477378000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362242348560702)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000002)
    (setq L1     0.0005778500000000)
    (setq C1     0.0998328314990579)
    (setq C2     0.0110109740623961)
    (setq C3     0.0000001057367829)
```

```
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          84000000.0000000000000000
;Desired Amplification                =               -0.0102564102560000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873257.0589608271000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362253498820942
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0974700079644289
;C2                                   =                 0.0107503685254885
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count    84.0000000000000000)
    (setq DesFreq 84000000.0000000000000000)
    (setq DesAmp    -0.0102564102560000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873257.0589608271000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362253498820942)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0974700079644289)
    (setq C2     0.0107503685254885)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          85000000.0000000000000000
;Desired Amplification                =               -0.0410256410240000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873258.1567824867000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362264260013332
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
```

```
;C1                                          =                0.0951900866708665
;C2                                          =                0.0104989066181103
;C3                                          =                0.0000001057367829
;Rd                                          =          3022600.0000000000000000
;R1                                          =        444500000.0000000000000000
;Rl1                                         =               61.6640193456665950
;
;
     (setq count    85.0000000000000000)
     (setq DesFreq 85000000.0000000000000000)
     (setq DesAmp    -0.0410256410240000)
     (setq Init1Amp 1020167.3008604913000000)
     (setq Sec2Amp 1873258.1567824867000000)
     (setq CompAc1     0.4445000000000000)
     (setq CheckAmp     1.8362264260013332)
     (setq Sign1    -1.0000000000000000)
     (setq Sign2    -1.0000000000000000)
     (setq L1     0.0005778500000000)
     (setq C1     0.0951900866708665)
     (setq C2     0.0104989066181103)
     (setq C3     0.0000001057367829)
     (setq Rd 3022600.0000000000000000)
     (setq R1 444500000.0000000000000000)
     (setq Rl1    61.6640193456665950)
     (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          86000000.0000000000000000
;Desired Amplification                       =               -0.0051282051280000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1873259.2172999664000000
;Computed Ac1
;(Component Amplification Factor)            =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                1.8362274655538446
;Sign 1 (sign of Result 1)                   =               -1.0000000000000000
;Sign 2 (sign of Result 2)                   =               -0.9999999999999999
;L1                                          =                0.0005778500000000
;C1                                          =                0.0929892342072756
;C2                                          =                0.0102561655375672
;C3                                          =                0.0000001057367829
;Rd                                          =          3022600.0000000000000000
;R1                                          =        444500000.0000000000000000
;Rl1                                         =               61.6640193456665950
;
;
     (setq count    86.0000000000000000)
     (setq DesFreq 86000000.0000000000000000)
     (setq DesAmp    -0.0051282051280000)
     (setq Init1Amp 1020167.3008604913000000)
     (setq Sec2Amp 1873259.2172999664000000)
     (setq CompAc1     0.4445000000000000)
     (setq CheckAmp     1.8362274655538446)
     (setq Sign1    -1.0000000000000000)
     (setq Sign2    -0.9999999999999999)
     (setq L1     0.0005778500000000)
```

```
    (setq C1     0.0929892342072756)
    (setq C2     0.0102561655375672)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          87000000.0000000000000000
;Desired Amplification                =                -0.0153846153840000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873260.2421047627000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362284700996632
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0908638361998956
;C2                                   =                 0.0100217466396944
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count    87.0000000000000000)
    (setq DesFreq 87000000.0000000000000000)
    (setq DesAmp    -0.0153846153840000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873260.2421047627000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362284700996632)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0908638361998956)
    (setq C2     0.0100217466396944)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          88000000.0000000000000000
;Desired Amplification                =                 0.0128205128200000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873261.2321313098000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362294405547506
```

```
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.0888104824634569
;C2                                       =                   0.0097952738011166
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count    88.0000000000000000)
    (setq DesFreq 88000000.0000000000000000)
    (setq DesAmp     0.0128205128200000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873261.2321313098000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362294405547506)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0888104824634569)
    (setq C2     0.0097952738011166)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =           89000000.0000000000000000
;Desired Amplification                    =                -0.0025641025640000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873262.1882863971000000
;Computed Ac1
;(Component Amplification Factor)         =                   0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                   1.8362303778079703
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.0868259533135980
;C2                                       =                   0.0095763919095880
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count    89.0000000000000000)
    (setq DesFreq 89000000.0000000000000000)
    (setq DesAmp    -0.0025641025640000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873262.1882863971000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362303778079703)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0868259533135980)
    (setq C2     0.0095763919095880)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          90000000.0000000000000000
;Desired Amplification                =                0.0179487179480000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873263.1120216961000000
;Computed Ac1
;(Component Amplification Factor)     =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                1.8362312832822960
;Sign 1 (sign of Result 1)            =               -1.0000000000000000
;Sign 2 (sign of Result 2)            =               -1.0000000000000000
;L1                                   =                0.0005778500000000
;C1                                   =                0.0849072069379025
;C2                                   =                0.0093647654710922
;C3                                   =                0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =               61.6640193456665950
;
;
    (setq count    90.0000000000000000)
    (setq DesFreq 90000000.0000000000000000)
    (setq DesAmp     0.0179487179480000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873263.1120216961000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362312832822960)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0849072069379025)
    (setq C2     0.0093647654710922)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          91000000.0000000000000000
;Desired Amplification                =               -0.0102564102560000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873264.0053513513000000
;Computed Ac1
```

```
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362321589520558
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.0830513677330045
;C2                                      =                  0.0091600773234931
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count    91.0000000000000000)
    (setq DesFreq 91000000.0000000000000000)
    (setq DesAmp    -0.0102564102560000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873264.0053513513000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362321589520558)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0830513677330045)
    (setq C2     0.0091600773234931)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =          92000000.0000000000000000
;Desired Amplification                   =                  0.0128205128200000
;Initial Result 1 Amplitude              =           1020167.3008604913000000
;Secondary Result 2 Amplitude            =           1873264.8703041568000000
;Computed Ac1
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362330068059369
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.0812557155242214
;C2                                      =                  0.0089620274475244
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count    92.0000000000000000)
    (setq DesFreq 92000000.0000000000000000)
    (setq DesAmp     0.0128205128200000)
    (setq Init1Amp 1020167.3008604913000000)
```

```
    (setq Sec2Amp 1873264.8703041568000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362330068059369)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0812557155242214)
    (setq C2     0.0089620274475244)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          93000000.0000000000000000
;Desired Amplification                    =                -0.0179487179480000
;Initial Result 1 Amplitude               =           1020167.3008604913000000
;Secondary Result 2 Amplitude             =           1873265.7082966233000000
;Computed Ac1
;(Component Amplification Factor)         =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8362338282324480
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -1.0000000000000000
;L1                                       =                 0.0005778500000000
;C1                                       =                 0.0795176755922084
;C2                                       =                 0.0087703318667877
;C3                                       =                 0.0000001057367829
;Rd                                       =           3022600.0000000000000000
;R1                                       =         444500000.0000000000000000
;Rl1                                      =                61.6640193456665950
;
;
    (setq count    93.0000000000000000)
    (setq DesFreq 93000000.0000000000000000)
    (setq DesAmp    -0.0179487179480000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873265.7082966233000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362338282324480)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0795176755922084)
    (setq C2     0.0087703318667877)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          94000000.0000000000000000
;Desired Amplification                    =                 0.0076923076920000
```

```
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1873266.5199824751000000
;Computed Ac1
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362346238723897
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.0778348094383216
;C2                                      =                  0.0085847216292266
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count    94.0000000000000000)
    (setq DesFreq 94000000.0000000000000000)
    (setq DesAmp     0.0076923076920000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873266.5199824751000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362346238723897)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0778348094383216)
    (setq C2     0.0085847216292266)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =           95000000.0000000000000000
;Desired Amplification                   =                 -0.0179487179480000
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1873267.3057148571000000
;Computed Ac1
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362353940719258
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.0762048062268155
;C2                                      =                  0.0084049418632517
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count    95.0000000000000000)
```

```
    (setq DesFreq 95000000.0000000000000000)
    (setq DesAmp    -0.0179487179480000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873267.3057148571000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362353940719258)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0762048062268155)
    (setq C2     0.0084049418632517)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          96000000.0000000000000000
;Desired Amplification                    =                 0.0102564102560000
;Initial Result 1 Amplitude               =           1020167.3008604913000000
;Secondary Result 2 Amplitude             =           1873268.0662184709000000
;Computed Ac1
;(Component Amplification Factor)         =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8362361395414319
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -0.9999999999999999
;L1                                       =                 0.0005778500000000
;C1                                       =                 0.0746254748477659
;C2                                       =                 0.0082307509023271
;C3                                       =                 0.0000001057367829
;Rd                                       =           3022600.0000000000000000
;R1                                       =         444500000.0000000000000000
;Rl1                                      =                61.6640193456665950
;
;
    (setq count    96.0000000000000000)
    (setq DesFreq 96000000.0000000000000000)
    (setq DesAmp     0.0102564102560000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873268.0662184709000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362361395414319)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.0746254748477659)
    (setq C2     0.0082307509023271)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
```

```
;
;Desired Frequency                    =          97000000.0000000000000000
;Desired Amplification                =                -0.0076923076920000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873268.8028840101000000
;Computed Acl
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362368616441092
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0730947365497938
;C2                                   =                 0.0080619194724037
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rll                                  =                61.6640193456665950
;
;
    (setq count    97.0000000000000000)
    (setq DesFreq 97000000.0000000000000000)
    (setq DesAmp    -0.0076923076920000)
    (setq Initlamp 1020167.3008604913000000)
    (setq Sec2Amp 1873268.8028840101000000)
    (setq CompAcl     0.4445000000000000)
    (setq CheckAmp     1.8362368616441092)
    (setq Signl    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0730947365497938)
    (setq C2     0.0080619194724037)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Initlamp Sec2Amp CompAcl CheckAmp Signl Sign2
L1 C1 C2 C3 Rd R1 Rll)
;
;
;Desired Frequency                    =          98000000.0000000000000000
;Desired Amplification                =                 0.0153846153840000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1873269.5174291248000000
;Computed Acl
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362375620636522
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0716106180963151
;C2                                   =                 0.0078982299370936
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rll                                  =                61.6640193456665950
```

```
;
;
    (setq count    98.0000000000000000)
    (setq DesFreq 98000000.0000000000000000)
    (setq DesAmp     0.0153846153840000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873269.5174291248000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362375620636522)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0716106180963151)
    (setq C2     0.0078982299370936)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          99000000.0000000000000000
;Desired Amplification                    =                 0.0025641025640000
;Initial Result 1 Amplitude               =           1020167.3008604913000000
;Secondary Result 2 Amplitude             =           1873270.2112269662000000
;Computed Ac1
;(Component Amplification Factor)         =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8362382421460670
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -0.9999999999999999
;L1                                       =                 0.0005778500000000
;C1                                       =                 0.0701712454032252
;C2                                       =                 0.0077394755959440
;C3                                       =                 0.0000001057367829
;Rd                                       =           3022600.0000000000000000
;R1                                       =         444500000.0000000000000000
;Rl1                                      =                61.6640193456665950
;
;
    (setq count    99.0000000000000000)
    (setq DesFreq 99000000.0000000000000000)
    (setq DesAmp     0.0025641025640000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873270.2112269662000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362382421460670)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.0701712454032252)
    (setq C2     0.0077394755959440)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          100000000.0000000000000000
;Desired Amplification                =                0.0128205128200000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873270.8848954425000000
;Computed Ac1
;(Component Amplification Factor)      =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362389024970462
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0687748376197010
;C2                                   =                 0.0075854600315847
;C3                                   =                 0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count   100.0000000000000000)
    (setq DesFreq 100000000.0000000000000000)
    (setq DesAmp     0.0128205128200000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873270.8848954425000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362389024970462)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0687748376197010)
    (setq C2     0.0075854600315847)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          101000000.0000000000000000
;Desired Amplification                =                0.0076923076920000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873271.5385108870000000
;Computed Ac1
;(Component Amplification Factor)      =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362395431914147
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0674197016171954
;C2                                   =                 0.0074359965018965
;C3                                   =                 0.0000001057367829
```

```
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =              61.6640193456665950
;
;
    (setq count   101.0000000000000000)
    (setq DesFreq 101000000.0000000000000000)
    (setq DesAmp     0.0076923076920000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873271.5385108870000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362395431914147)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0674197016171954)
    (setq C2     0.0074359965018965)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =         102000000.0000000000000000
;Desired Amplification                       =              -0.0051282051280000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1873272.1722606064000000
;Computed Ac1
;(Component Amplification Factor)            =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                1.8362401644127762
;Sign 1 (sign of Result 1)                   =               -1.0000000000000000
;Sign 2 (sign of Result 2)                   =               -1.0000000000000000
;L1                                          =                0.0005778500000000
;C1                                          =                0.0661042268547684
;C2                                          =                0.0072909073736877
;C3                                          =                0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =              61.6640193456665950
;
;
    (setq count   102.0000000000000000)
    (setq DesFreq 102000000.0000000000000000)
    (setq DesAmp    -0.0051282051280000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873272.1722606064000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362401644127762)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0661042268547684)
    (setq C2     0.0072909073736877)
    (setq C3     0.0000001057367829)
```

```
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          103000000.0000000000000000
;Desired Amplification                =                  0.0102564102560000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873272.7869626984000000
;Computed Ac1
;(Component Amplification Factor)      =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362407669630554
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0648268805916684
;C2                                   =                  0.0071500235946693
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                 61.6640193456665950
;
;
    (setq count   103.0000000000000000)
    (setq DesFreq 103000000.0000000000000000)
    (setq DesAmp     0.0102564102560000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873272.7869626984000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362407669630554)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0648268805916684)
    (setq C2     0.0071500235946693)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          104000000.0000000000000000
;Desired Amplification                =                 -0.0179487179480000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873273.3839980927000000
;Computed Ac1
;(Component Amplification Factor)      =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362413521958831
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
```

```
;C1                                          =                0.0635862034205816
;C2                                          =                0.0070131842007994
;C3                                          =                0.0000001057367829
;Rd                                          =          3022600.0000000000000000
;R1                                          =        444500000.0000000000000000
;Rl1                                         =               61.6640193456665950
;
;
    (setq count   104.0000000000000000)
    (setq DesFreq 104000000.0000000000000000)
    (setq DesAmp    -0.0179487179480000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873273.3839980927000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362413521958831)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0635862034205816)
    (setq C2     0.0070131842007994)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =        105000000.0000000000000000
;Desired Amplification                       =                0.0230769230760000
;Initial Result 1 Amplitude                  =          1020167.3008604913000000
;Secondary Result 2 Amplitude                =          1873273.9647164722000000
;Computed Ac1
;(Component Amplification Factor)            =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                1.8362419214342609
;Sign 1 (sign of Result 1)                   =               -1.0000000000000000
;Sign 2 (sign of Result 2)                   =               -1.0000000000000000
;L1                                          =                0.0005778500000000
;C1                                          =                0.0623808050972345
;C2                                          =                0.0068802358563126
;C3                                          =                0.0000001057367829
;Rd                                          =          3022600.0000000000000000
;R1                                          =        444500000.0000000000000000
;Rl1                                         =               61.6640193456665950
;
;
    (setq count   105.0000000000000000)
    (setq DesFreq 105000000.0000000000000000)
    (setq DesAmp     0.0230769230760000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873273.9647164722000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362419214342609)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
```

```
    (setq C1     0.0623808050972345)
    (setq C2     0.0068802358563126)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rll)
;
;
;Desired Frequency                    =          106000000.0000000000000000
;Desired Amplification                =                -0.0076923076920000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873274.5298402496000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362424753863205
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0612093606440913
;C2                                   =                  0.0067510324239807
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rll                                  =                 61.6640193456665950
;
;
    (setq count   106.0000000000000000)
    (setq DesFreq 106000000.0000000000000000)
    (setq DesAmp    -0.0076923076920000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873274.5298402496000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362424753863205)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0612093606440913)
    (setq C2     0.0067510324239807)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rll)
;
;
;Desired Frequency                    =          107000000.0000000000000000
;Desired Amplification                =                  0.0256410256400000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873275.0793923396000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362430140745234
```

```
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.0600706067077483
;C2                                       =                   0.0066254345633546
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count   107.0000000000000000)
    (setq DesFreq 107000000.0000000000000000)
    (setq DesAmp     0.0256410256400000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873275.0793923396000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362430140745234)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0600706067077483)
    (setq C2     0.0066254345633546)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =           108000000.0000000000000000
;Desired Amplification                    =                  -0.0282051282040000
;Initial Result 1 Amplitude               =             1020167.3008604913000000
;Secondary Result 2 Amplitude             =             1873275.6132128048000000
;Computed Ac1
;(Component Amplification Factor)         =                   0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                   1.8362435373420940
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.0589633381513212
;C2                                       =                   0.0065033093549251
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count   108.0000000000000000)
    (setq DesFreq 108000000.0000000000000000)
    (setq DesAmp    -0.0282051282040000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873275.6132128048000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362435373420940)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0589633381513212)
    (setq C2     0.0065033093549251)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          109000000.0000000000000000
;Desired Amplification                    =                -0.1205128205080000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873276.1316115202000000
;Computed Ac1
;(Component Amplification Factor)         =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8362440454927818
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -1.0000000000000000
;L1                                       =                 0.0005778500000000
;C1                                       =                 0.0578864048646587
;C2                                       =                 0.0063845299483079
;C3                                       =                 0.0000001057367829
;Rd                                       =            3022600.0000000000000000
;R1                                       =          444500000.0000000000000000
;Rl1                                      =                61.6640193456665950
;
;
    (setq count   109.0000000000000000)
    (setq DesFreq 109000000.0000000000000000)
    (setq DesAmp    -0.1205128205080000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873276.1316115202000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362440454927818)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0578864048646587)
    (setq C2     0.0063845299483079)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          110000000.0000000000000000
;Desired Amplification                    =                -0.6743589743320001
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873276.6355843123000000
;Computed Ac1
```

```
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362445395027265
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -0.9999999999999999
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.0568387087766124
;C2                                      =                  0.0062689752327146
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count   110.0000000000000000)
    (setq DesFreq 110000000.0000000000000000)
    (setq DesAmp    -0.6743589743320001)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873276.6355843123000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362445395027265)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.0568387087766124)
    (setq C2     0.0062689752327146)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =          111000000.0000000000000000
;Desired Amplification                   =                -3.6948717947240004
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1873277.1264037986000000
;Computed Ac1
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362450206193883
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.0558192010548665
;C2                                      =                  0.0061565295281103
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count   111.0000000000000000)
    (setq DesFreq 111000000.0000000000000000)
    (setq DesAmp    -3.6948717947240004)
    (setq Init1Amp 1020167.3008604913000000)
```

```
    (setq Sec2Amp 1873277.1264037986000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362450206193883)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0558192010548665)
    (setq C2     0.0061565295281103)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          112000000.0000000000000000
;Desired Amplification                    =               -28.5794871783440030
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873277.6049458962000000
;Computed Ac1
;(Component Amplification Factor)         =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8362454897013687
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -0.9999999999999999
;L1                                       =                 0.0005778500000000
;C1                                       =                 0.0548268794799912
;C2                                       =                 0.0060470822955873
;C3                                       =                 0.0000001057367829
;Rd                                       =            3022600.0000000000000000
;R1                                       =          444500000.0000000000000000
;Rl1                                      =                61.6640193456665950
;
;
    (setq count   112.0000000000000000)
    (setq DesFreq 112000000.0000000000000000)
    (setq DesAmp   -28.5794871783440030)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873277.6049458962000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362454897013687)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.0548268794799912)
    (setq C2     0.0060470822955873)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          113000000.0000000000000000
;Desired Amplification                    =               -402.0769230608400400
```

```
;Initial Result 1 Amplitude                =          1020167.3008604913000000
;Secondary Result 2 Amplitude              =          1873278.0713453309000000
;Computed Ac1
;(Component Amplification Factor)          =               0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =               1.8362459468807297
;Sign 1 (sign of Result 1)                 =              -1.0000000000000000
;Sign 2 (sign of Result 2)                 =              -1.0000000000000000
;L1                                        =               0.0005778500000000
;C1                                        =               0.0538607859814402
;C2                                        =               0.0059405278656000
;C3                                        =               0.0000001057367829
;Rd                                        =         3022600.0000000000000000
;R1                                        =       444500000.0000000000000000
;Rl1                                       =              61.6640193456665950
;
;
    (setq count   113.0000000000000000)
    (setq DesFreq 113000000.0000000000000000)
    (setq DesAmp  -402.0769230608400400)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873278.0713453309000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362459468807297)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0538607859814402)
    (setq C2     0.0059405278656000)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                         =        114000000.0000000000000000
;Desired Amplification                     =           -40524.5512804303070000
;Initial Result 1 Amplitude                =          1020167.3008604913000000
;Secondary Result 2 Amplitude              =          1873278.5252841245000000
;Computed Ac1
;(Component Amplification Factor)          =               0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =               1.8362463918457792
;Sign 1 (sign of Result 1)                 =              -1.0000000000000000
;Sign 2 (sign of Result 2)                 =              -0.9999999999999999
;L1                                        =               0.0005778500000000
;C1                                        =               0.0529200043241775
;C2                                        =               0.0058367651828137
;C3                                        =               0.0000001057367829
;Rd                                        =         3022600.0000000000000000
;R1                                        =       444500000.0000000000000000
;Rl1                                       =              61.6640193456665950
;
;
    (setq count   114.0000000000000000)
```

```
    (setq DesFreq 114000000.0000000000000000)
    (setq DesAmp -40524.5512804303070000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873278.5252841245000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362463918457792)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.0529200043241775)
    (setq C2     0.0058367651828137)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          115000000.0000000000000000
;Desired Amplification                    =             758987.6384311789900000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873278.9666603617000000
;Computed Ac1
;(Component Amplification Factor)         =                   0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                   1.8362468244966168
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.0520036579355017
;C2                                       =                   0.0057356975664156
;C3                                       =                   0.0000001057367829
;Rd                                       =            3022600.0000000000000000
;R1                                       =          444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count   115.0000000000000000)
    (setq DesFreq 115000000.0000000000000000)
    (setq DesAmp 758987.6384311789900000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873278.9666603617000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362468244966168)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0520036579355017)
    (setq C2     0.0057356975664156)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
```

```
;
;Desired Frequency                    =          116000000.0000000000000000
;Desired Amplification                =           -6341562.3561565951000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873279.3960501046000000
;Computed Acl
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362472453979166
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0511109078624413
;C2                                   =                 0.0056372324848281
;C3                                   =                 0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rll                                  =                61.6640193456665950
;
;
    (setq count   116.0000000000000000)
    (setq DesFreq 116000000.0000000000000000)
    (setq DesAmp -6341562.3561565951000000)
    (setq Initl1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873279.3960501046000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362472453979166)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0511109078624413)
    (setq C2     0.0056372324848281)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Initl1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rll)
;
;
;Desired Frequency                    =          117000000.0000000000000000
;Desired Amplification                =           33370205.5832805780000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873279.8145571530000000
;Computed Acl
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362476556316576
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -0.9999999999999999
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0502409508508299
;C2                                   =                 0.0055412813438415
;C3                                   =                 0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rll                                  =                61.6640193456665950
```

```
;
;
    (setq count   117.0000000000000000)
    (setq DesFreq 117000000.0000000000000000)
    (setq DesAmp 33370205.5832805780000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873279.8145571530000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362476556316576)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.0502409508508299)
    (setq C2     0.0055412813438415)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                          =         118000000.0000000000000000
;Desired Amplification                      =        -125523278.8693380500000000
;Initial Result 1 Amplitude                 =           1020167.3008604913000000
;Secondary Result 2 Amplitude               =           1873280.2231835804000000
;Computed Ac1
;(Component Amplification Factor)           =                0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                        =                1.8362480561801040
;Sign 1 (sign of Result 1)                  =               -1.0000000000000000
;Sign 2 (sign of Result 2)                  =               -1.0000000000000000
;L1                                         =                0.0005778500000000
;C1                                         =                0.0493930175378490
;C2                                         =                0.0054477592872628
;C3                                         =                0.0000001057367829
;Rd                                         =           3022600.0000000000000000
;R1                                         =         444500000.0000000000000000
;Rl1                                        =               61.6640193456665950
;
;
    (setq count   118.0000000000000000)
    (setq DesFreq 118000000.0000000000000000)
    (setq DesAmp -125523278.8693380500000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873280.2231835804000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362480561801040)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0493930175378490)
    (setq C2     0.0054477592872628)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          119000000.0000000000000000
;Desired Amplification                =          359586996.9368985900000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873280.6222753101000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362484473823406
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0485663707504421
;C2                                   =                 0.0053565850092399
;C3                                   =                 0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count   119.0000000000000000)
    (setq DesFreq 119000000.0000000000000000)
    (setq DesAmp 359586996.9368985900000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873280.6222753101000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362484473823406)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0485663707504421)
    (setq C2     0.0053565850092399)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          120000000.0000000000000000
;Desired Amplification                =         -812265973.8239196500000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873281.0115309742000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362488289429568
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -0.9999999999999999
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0477603039025701
;C2                                   =                 0.0052676805774894
;C3                                   =                 0.0000001057367829
```

```
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =              61.6640193456665950
;
;
     (setq count   120.0000000000000000)
     (setq DesFreq 120000000.0000000000000000)
     (setq DesAmp -812265973.8239196500000000)
     (setq Init1Amp 1020167.3008604913000000)
     (setq Sec2Amp 1873281.0115309742000000)
     (setq CompAc1     0.4445000000000000)
     (setq CheckAmp     1.8362488289429568)
     (setq Sign1    -1.0000000000000000)
     (setq Sign2    -0.9999999999999999)
     (setq L1     0.0005778500000000)
     (setq C1     0.0477603039025701)
     (setq C2     0.0052676805774894)
     (setq C3     0.0000001057367829)
     (setq Rd 3022600.0000000000000000)
     (setq R1 444500000.0000000000000000)
     (setq Rl1    61.6640193456665950)
     (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          121000000.0000000000000000
;Desired Amplification                       =         1472201028.1026506000000000
;Initial Result 1 Amplitude                  =            1020167.3008604913000000
;Secondary Result 2 Amplitude                =            1873281.3905669525000000
;Computed Ac1
;(Component Amplification Factor)            =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                  1.8362492004859166
;Sign 1 (sign of Result 1)                   =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                 -1.0000000000000000
;L1                                          =                  0.0005778500000000
;C1                                          =                  0.0469741394848036
;C2                                          =                  0.0051809712667063
;C3                                          =                  0.0000001057367829
;Rd                                          =            3022600.0000000000000000
;R1                                          =          444500000.0000000000000000
;Rl1                                         =               61.6640193456665950
;
;
     (setq count   121.0000000000000000)
     (setq DesFreq 121000000.0000000000000000)
     (setq DesAmp 1472201028.1026506000000000)
     (setq Init1Amp 1020167.3008604913000000)
     (setq Sec2Amp 1873281.3905669525000000)
     (setq CompAc1     0.4445000000000000)
     (setq CheckAmp     1.8362492004859166)
     (setq Sign1    -1.0000000000000000)
     (setq Sign2    -1.0000000000000000)
     (setq L1     0.0005778500000000)
     (setq C1     0.0469741394848036)
     (setq C2     0.0051809712667063)
     (setq C3     0.0000001057367829)
```

```
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          122000000.0000000000000000
;Desired Amplification                =        -2146271243.9551749000000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873281.7595423751000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362495621672037
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0462072276402184
;C2                                   =                  0.0050963854014947
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                 61.6640193456665950
;
;
    (setq count   122.0000000000000000)
    (setq DesFreq 122000000.0000000000000000)
    (setq DesAmp -2146271243.9551749000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873281.7595423751000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362495621672037)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0462072276402184)
    (setq C2     0.0050963854014947)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          123000000.0000000000000000
;Desired Amplification                =         2471800699.5524101000000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873282.1192951242000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362499148081370
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
```

```
;C1                                          =                 0.0454589448210067
;C2                                          =                 0.0050138542081993
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =                61.6640193456665950
;
;
    (setq count   123.0000000000000000)
    (setq DesFreq 123000000.0000000000000000)
    (setq DesAmp 2471800699.5524101000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873282.1192951242000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362499148081370)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0454589448210067)
    (setq C2     0.0050138542081993)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          124000000.0000000000000000
;Desired Amplification                       =        -2104842996.4747808000000000
;Initial Result 1 Amplitude                  =            1020167.3008604913000000
;Secondary Result 2 Amplitude                =            1873282.4708698101000000
;Computed Ac1
;(Component Amplification Factor)            =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                 1.8362502594326762
;Sign 1 (sign of Result 1)                   =                -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                -0.9999999999999999
;L1                                          =                 0.0005778500000000
;C1                                          =                 0.0447286925206172
;C2                                          =                 0.0049333116750681
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =                61.6640193456665950
;
;
    (setq count   124.0000000000000000)
    (setq DesFreq 124000000.0000000000000000)
    (setq DesAmp -2104842996.4747808000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873282.4708698101000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362502594326762)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
```

```
    (setq C1     0.0447286925206172)
    (setq C2     0.0049333116750681)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          125000000.0000000000000000
;Desired Amplification                =          990537808.6937118800000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873282.8148533276000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362505966161138
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0440158960766087
;C2                                   =                 0.0048546944202142
;C3                                   =                 0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count   125.0000000000000000)
    (setq DesFreq 125000000.0000000000000000)
    (setq DesAmp 990537808.6937118800000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873282.8148533276000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362505966161138)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0440158960766087)
    (setq C2     0.0048546944202142)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          126000000.0000000000000000
;Desired Amplification                =          513655953.5691974200000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873283.1511027613000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362509262183599
```

```
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.0433200035397462
;C2                                       =                   0.0047779415668838
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count   126.0000000000000000)
    (setq DesFreq 126000000.0000000000000000)
    (setq DesAmp 513655953.5691974200000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873283.1511027613000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362509262183599)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0433200035397462)
    (setq C2     0.0047779415668838)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          127000000.0000000000000000
;Desired Amplification                    =        -1812930070.8608162000000000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873283.4791053720000000
;Computed Ac1
;(Component Amplification Factor)         =                   0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                   1.8362512477368114
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.0426404846051838
;C2                                       =                   0.0047029946255717
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count   127.0000000000000000)
    (setq DesFreq 127000000.0000000000000000)
    (setq DesAmp -1812930070.8608162000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873283.4791053720000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362512477368114)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0426404846051838)
    (setq C2     0.0047029946255717)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =         128000000.0000000000000000
;Desired Amplification                    =        2438747914.3229628000000000
;Initial Result 1 Amplitude               =           1020167.3008604913000000
;Secondary Result 2 Amplitude             =           1873283.7986545858000000
;Computed Ac1
;(Component Amplification Factor)         =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8362515609689778
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -1.0000000000000000
;L1                                       =                 0.0005778500000000
;C1                                       =                 0.0419768296018683
;C2                                       =                 0.0046297973825590
;C3                                       =                 0.0000001057367829
;Rd                                       =           3022600.0000000000000000
;R1                                       =         444500000.0000000000000000
;Rl1                                      =                61.6640193456665950
;
;
    (setq count   128.0000000000000000)
    (setq DesFreq 128000000.0000000000000000)
    (setq DesAmp 2438747914.3229628000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873283.7986545858000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362515609689778)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0419768296018683)
    (setq C2     0.0046297973825590)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =         129000000.0000000000000000
;Desired Amplification                    =       -2310988910.9793553000000000
;Initial Result 1 Amplitude               =           1020167.3008604913000000
;Secondary Result 2 Amplitude             =           1873284.1102479945000000
;Computed Ac1
```

```
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362518664026144
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.0413285485365669
;C2                                      =                  0.0045582957944743
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count   129.0000000000000000)
    (setq DesFreq 129000000.0000000000000000)
    (setq DesAmp -2310988910.9793553000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873284.1102479945000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362518664026144)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0413285485365669)
    (setq C2     0.0045582957944743)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =          130000000.0000000000000000
;Desired Amplification                   =         1706603358.1112232000000000
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1873284.4148578115000000
;Computed Ac1
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362521649907153
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.0406951701891722
;C2                                      =                  0.0044884378885116
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count   130.0000000000000000)
    (setq DesFreq 130000000.0000000000000000)
    (setq DesAmp 1706603358.1112232000000000)
    (setq Init1Amp 1020167.3008604913000000)
```

```
    (setq Sec2Amp 1873284.4148578115000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362521649907153)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0406951701891722)
    (setq C2     0.0044884378885116)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          131000000.0000000000000000
;Desired Amplification                    =        -1010644095.3031641000000000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873284.7132760021000000
;Computed Ac1
;(Component Amplification Factor)         =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8362524575095898
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -1.0000000000000000
;L1                                       =                 0.0005778500000000
;C1                                       =                 0.0400762412561628
;C2                                       =                 0.0044201736679591
;C3                                       =                 0.0000001057367829
;Rd                                       =            3022600.0000000000000000
;R1                                       =          444500000.0000000000000000
;Rl1                                      =                61.6640193456665950
;
;
    (setq count   131.0000000000000000)
    (setq DesFreq 131000000.0000000000000000)
    (setq DesAmp -1010644095.3031641000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873284.7132760021000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362524575095898)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0400762412561628)
    (setq C2     0.0044201736679591)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          132000000.0000000000000000
;Desired Amplification                    =          481431917.1345889000000000
```

```
;Initial Result 1 Amplitude                =          1020167.3008604913000000
;Secondary Result 2 Amplitude              =          1873285.0056103067000000
;Computed Acl
;(Component Amplification Factor)          =               0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =               1.8362527440648484
;Sign 1 (sign of Result 1)                 =              -1.0000000000000000
;Sign 2 (sign of Result 2)                 =              -1.0000000000000000
;L1                                        =               0.0005778500000000
;C1                                        =               0.0394713255393142
;C2                                        =               0.0043534550227185
;C3                                        =               0.0000001057367829
;Rd                                        =         3022600.0000000000000000
;R1                                        =       444500000.0000000000000000
;Rll                                       =              61.6640193456665950
;
;
    (setq count   132.0000000000000000)
    (setq DesFreq 132000000.0000000000000000)
    (setq DesAmp 481431917.1345889000000000)
    (setq Initlamp 1020167.3008604913000000)
    (setq Sec2Amp 1873285.0056103067000000)
    (setq CompAcl     0.4445000000000000)
    (setq CheckAmp     1.8362527440648484)
    (setq Signl    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq Ll     0.0005778500000000)
    (setq C1     0.0394713255393142)
    (setq C2     0.0043534550227185)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                         =        133000000.0000000000000000
;Desired Amplification                     =       -182171839.1875849400000000
;Initial Result 1 Amplitude                =          1020167.3008604913000000
;Secondary Result 2 Amplitude              =          1873285.2913746422000000
;Computed Acl
;(Component Amplification Factor)          =               0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =               1.8362530241800168
;Sign 1 (sign of Result 1)                 =              -1.0000000000000000
;Sign 2 (sign of Result 2)                 =              -1.0000000000000000
;L1                                        =               0.0005778500000000
;C1                                        =               0.0388800031769467
;C2                                        =               0.0042882356445162
;C3                                        =               0.0000001057367829
;Rd                                        =         3022600.0000000000000000
;R1                                        =       444500000.0000000000000000
;Rll                                       =              61.6640193456665950
;
;
    (setq count   133.0000000000000000)
```

```
    (setq DesFreq 133000000.0000000000000000)
    (setq DesAmp -182171839.1875849400000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873285.2913746422000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362530241800168)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0388800031769467)
    (setq C2     0.0042882356445162)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          134000000.0000000000000000
;Desired Amplification                    =           53224059.9953069390000000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873285.5700947319000000
;Computed Ac1
;(Component Amplification Factor)         =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8362532973901946
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000000
;L1                                       =                  0.0005778500000000
;C1                                       =                  0.0383018699151821
;C2                                       =                  0.0042244709465274
;C3                                       =                  0.0000001057367829
;Rd                                       =            3022600.0000000000000000
;R1                                       =          444500000.0000000000000000
;Rl1                                      =                 61.6640193456665950
;
;
    (setq count   134.0000000000000000)
    (setq DesFreq 134000000.0000000000000000)
    (setq DesAmp 53224059.9953069390000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873285.5700947319000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362532973901946)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0383018699151821)
    (setq C2     0.0042244709465274)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
```

```
;
;Desired Frequency                    =          135000000.0000000000000000
;Desired Amplification                =          -11399338.8585183860000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873285.8418967221000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362535638190343
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0377365364168456
;C2                                   =                  0.0041621179871521
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                 61.6640193456665950
;
;
    (setq count   135.0000000000000000)
    (setq DesFreq 135000000.0000000000000000)
    (setq DesAmp -11399338.8585183860000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873285.8418967221000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362535638190343)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0377365364168456)
    (setq C2     0.0041621179871521)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          136000000.0000000000000000
;Desired Amplification                =            1621118.1717300273000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873286.1075614970000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362538242319830
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0371836276058072
;C2                                   =                  0.0041011353976993
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                 61.6640193456665950
```

```
;
;
     (setq count   136.0000000000000000)
     (setq DesFreq 136000000.0000000000000000)
     (setq DesAmp 1621118.1717300273000000)
     (setq Init1Amp 1020167.3008604913000000)
     (setq Sec2Amp 1873286.1075614970000000)
     (setq CompAc1     0.4445000000000000)
     (setq CheckAmp     1.8362538242319830)
     (setq Sign1    -1.0000000000000000)
     (setq Sign2    -1.0000000000000000)
     (setq L1     0.0005778500000000)
     (setq C1     0.0371836276058072)
     (setq C2     0.0041011353976993)
     (setq C3     0.0000001057367829)
     (setq Rd 3022600.0000000000000000)
     (setq R1 444500000.0000000000000000)
     (setq Rl1    61.6640193456665950)
     (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          137000000.0000000000000000
;Desired Amplification                    =            -121132.9615336162400000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873286.3679972121000000
;Computed Ac1
;(Component Amplification Factor)         =                   0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                   1.8362540795192430
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.0366427820447019
;C2                                       =                   0.0040414833137539
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
     (setq count   137.0000000000000000)
     (setq DesFreq 137000000.0000000000000000)
     (setq DesAmp -121132.9615336162400000)
     (setq Init1Amp 1020167.3008604913000000)
     (setq Sec2Amp 1873286.3679972121000000)
     (setq CompAc1     0.4445000000000000)
     (setq CheckAmp     1.8362540795192430)
     (setq Sign1    -1.0000000000000000)
     (setq Sign2    -1.0000000000000000)
     (setq L1     0.0005778500000000)
     (setq C1     0.0366427820447019)
     (setq C2     0.0040414833137539)
     (setq C3     0.0000001057367829)
     (setq Rd 3022600.0000000000000000)
     (setq R1 444500000.0000000000000000)
     (setq Rl1    61.6640193456665950)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          138000000.0000000000000000
;Desired Amplification                =               1276.4205127694561000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873286.6235941260000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362543300633585
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0361136513440984
;C2                                   =                 0.0039831233100109
;C3                                   =                 0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count   138.0000000000000000)
    (setq DesFreq 138000000.0000000000000000)
    (setq DesAmp  1276.4205127694561000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873286.6235941260000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362543300633585)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0361136513440984)
    (setq C2     0.0039831233100109)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          139000000.0000000000000000
;Desired Amplification                =                65.4692307666120000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873286.8740292802000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362545755477548
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0355958996013152
;C2                                   =                 0.0039260183383803
;C3                                   =                 0.0000001057367829
```

```
;Rd                                          =           3022600.0000000000000000
;Rl                                          =         444500000.0000000000000000
;Rll                                         =               61.6640193456665950
;
;
    (setq count   139.0000000000000000)
    (setq DesFreq 139000000.0000000000000000)
    (setq DesAmp    65.4692307666120000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873286.8740292802000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362545755477548)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0355958996013152)
    (setq C2     0.0039260183383803)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rll)
;
;
;Desired Frequency                           =         140000000.0000000000000000
;Desired Amplification                       =               7.2717948715040004
;Initial Result 1 Amplitude                  =          1020167.3008604913000000
;Secondary Result 2 Amplitude                =          1873287.1186930351000000
;Computed Ac1
;(Component Amplification Factor)            =               0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =               1.8362548153748448
;Sign 1 (sign of Result 1)                   =              -1.0000000000000000
;Sign 2 (sign of Result 2)                   =              -1.0000000000000000
;L1                                          =               0.0005778500000000
;C1                                          =               0.0350892028671944
;C2                                          =               0.0038701326691759
;C3                                          =               0.0000001057367829
;Rd                                          =          3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rll                                         =               61.6640193456665950
;
;
    (setq count   140.0000000000000000)
    (setq DesFreq 140000000.0000000000000000)
    (setq DesAmp     7.2717948715040004)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873287.1186930351000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362548153748448)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0350892028671944)
    (setq C2     0.0038701326691759)
    (setq C3     0.0000001057367829)
```

```
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          141000000.0000000000000000
;Desired Amplification                =                 1.2589743589240001
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873282.5600554827000000
;Computed Ac1
;(Component Amplification Factor)      =                 0.5790000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362503468552711
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000002
;L1                                   =                 0.0007527000000000
;C1                                   =                 0.0265573385494792
;C2                                   =                 0.0029291182223690
;C3                                   =                 0.0000000811744387
;Rd                                   =            3937199.9999999995000000
;R1                                   =          579000000.0000000000000000
;Rl1                                  =                80.3227608574599690
;
;
    (setq count   141.0000000000000000)
    (setq DesFreq 141000000.0000000000000000)
    (setq DesAmp     1.2589743589240001)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873282.5600554827000000)
    (setq CompAc1     0.5790000000000000)
    (setq CheckAmp     1.8362503468552711)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000002)
    (setq L1     0.0007527000000000)
    (setq C1     0.0265573385494792)
    (setq C2     0.0029291182223690)
    (setq C3     0.0000000811744387)
    (setq Rd 3937199.9999999995000000)
    (setq R1 579000000.0000000000000000)
    (setq Rl1    80.3227608574599690)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          142000000.0000000000000000
;Desired Amplification                =                 0.2487179487080000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1872922.4209703221000000
;Computed Ac1
;(Component Amplification Factor)      =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8358973272232393
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 1.3007221499999999
```

```
;C1                                          =                 0.0000151524711786
;C2                                          =                 0.0000016712284388
;C3                                          =                 0.0000000000469739
;Rd                                          =         6803777400.0000000000000000
;R1                                          =      1000555499999.9999000000000000
;Rl1                                         =            138803.7653732578300000
;
;
    (setq count   142.0000000000000000)
    (setq DesFreq 142000000.0000000000000000)
    (setq DesAmp     0.2487179487080000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872922.4209703221000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8358973272232393)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000151524711786)
    (setq C2     0.0000016712284388)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =         143000000.0000000000000000
;Desired Amplification                       =                 0.0897435897400000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1872925.9770278360000000
;Computed Ac1
;(Component Amplification Factor)            =              1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                 1.8359008129823995
;Sign 1 (sign of Result 1)                   =                -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                -0.9999999999999999
;L1                                          =                 1.3007221499999999
;C1                                          =                 0.0000149412894931
;C2                                          =                 0.0000016479363412
;C3                                          =                 0.0000000000469739
;Rd                                          =         6803777400.0000000000000000
;R1                                          =      1000555499999.9999000000000000
;Rl1                                         =            138803.7653732578300000
;
;
    (setq count   143.0000000000000000)
    (setq DesFreq 143000000.0000000000000000)
    (setq DesAmp     0.0897435897400000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872925.9770278360000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359008129823995)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     1.3007221499999999)
```

```
    (setq C1     0.0000149412894931)
    (setq C2     0.0000016479363412)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          144000000.0000000000000000
;Desired Amplification                =                -0.0282051282040000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1872931.2279400972000000
;Computed Ac1
;(Component Amplification Factor)      =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359059600913656
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  1.3007221499999999
;C1                                   =                  0.0000147344921318
;C2                                   =                  0.0000016251278087
;C3                                   =                  0.0000000000469739
;Rd                                   =         6803777400.0000000000000000
;R1                                   =      1000555499999.9999000000000000
;Rl1                                  =            138803.7653732578300000
;
;
    (setq count   144.0000000000000000)
    (setq DesFreq 144000000.0000000000000000)
    (setq DesAmp    -0.0282051282040000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872931.2279400972000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359059600913656)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000147344921318)
    (setq C2     0.0000016251278087)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          145000000.0000000000000000
;Desired Amplification                =                  0.0000000000000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1872937.7395545926000000
;Computed Ac1
;(Component Amplification Factor)      =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359123429802211
```

```
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -1.0000000000000000
;L1                                       =                 1.3007221499999999
;C1                                       =                 0.0000145319585657
;C2                                       =                 0.0000016027895477
;C3                                       =                 0.0000000000469739
;Rd                                       =       6803777400.0000000000000000
;R1                                       =    1000555499999.9999000000000000
;Rl1                                      =          138803.7653732578300000
;
;
    (setq count   145.0000000000000000)
    (setq DesFreq 145000000.0000000000000000)
    (setq DesAmp     0.0000000000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872937.7395545926000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359123429802211)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000145319585657)
    (setq C2     0.0000016027895477)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =       146000000.0000000000000000
;Desired Amplification                    =              -0.0615384615360000
;Initial Result 1 Amplitude               =         1020167.3008604913000000
;Secondary Result 2 Amplitude             =         1872943.8829046090000000
;Computed Ac1
;(Component Amplification Factor)         =            1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =               1.8359183648846784
;Sign 1 (sign of Result 1)                =              -1.0000000000000000
;Sign 2 (sign of Result 2)                =              -1.0000000000000000
;L1                                       =               1.3007221499999999
;C1                                       =               0.0000143335723796
;C2                                       =               0.0000015809087183
;C3                                       =               0.0000000000469739
;Rd                                       =       6803777400.0000000000000000
;R1                                       =    1000555499999.9999000000000000
;Rl1                                      =          138803.7653732578300000
;
;
    (setq count   146.0000000000000000)
    (setq DesFreq 146000000.0000000000000000)
    (setq DesAmp    -0.0615384615360000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872943.8829046090000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359183648846784)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000143335723796)
    (setq C2     0.0000015809087183)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          147000000.0000000000000000
;Desired Amplification                =                 -0.0102564102560000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1872948.2689520137000000
;Computed Ac1
;(Component Amplification Factor)     =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359226642259738
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000002
;L1                                   =                  1.3007221499999999
;C1                                   =                  0.0000141392211044
;C2                                   =                  0.0000015594729159
;C3                                   =                  0.0000000000469739
;Rd                                   =         6803777400.0000000000000000
;R1                                   =      1000555499999.9999000000000000
;Rl1                                  =            138803.7653732578300000
;
;
    (setq count   147.0000000000000000)
    (setq DesFreq 147000000.0000000000000000)
    (setq DesAmp    -0.0102564102560000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872948.2689520137000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359226642259738)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000002)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000141392211044)
    (setq C2     0.0000015594729159)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          148000000.0000000000000000
;Desired Amplification                =                 -0.0487179487160000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1872950.9722694529000000
;Computed Ac1
```

```
;(Component Amplification Factor)        =              1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                 1.8359253141025547
;Sign 1 (sign of Result 1)               =                -1.0000000000000000
;Sign 2 (sign of Result 2)               =                -0.9999999999999999
;L1                                      =                 1.3007221499999999
;C1                                      =                 0.0000139487960575
;C2                                      =                 0.0000015384701534
;C3                                      =                 0.0000000000469739
;Rd                                      =       6803777400.0000000000000000
;R1                                      =    1000555499999.9999000000000000
;Rl1                                     =          138803.7653732578300000
;
;
    (setq count   148.0000000000000000)
    (setq DesFreq 148000000.0000000000000000)
    (setq DesAmp    -0.0487179487160000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872950.9722694529000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359253141025547)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000139487960575)
    (setq C2     0.0000015384701534)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =       149000000.0000000000000000
;Desired Amplification                   =              -0.0025641025640000
;Initial Result 1 Amplitude              =         1020167.3008604913000000
;Secondary Result 2 Amplitude            =         1872953.4676631421000000
;Computed Ac1
;(Component Amplification Factor)        =              1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                 1.8359277601657515
;Sign 1 (sign of Result 1)               =                -1.0000000000000000
;Sign 2 (sign of Result 2)               =                -1.0000000000000000
;L1                                      =                 1.3007221499999999
;C1                                      =                 0.0000137621921915
;C2                                      =                 0.0000015178888447
;C3                                      =                 0.0000000000469739
;Rd                                      =       6803777400.0000000000000000
;R1                                      =    1000555499999.9999000000000000
;Rl1                                     =          138803.7653732578300000
;
;
    (setq count   149.0000000000000000)
    (setq DesFreq 149000000.0000000000000000)
    (setq DesAmp    -0.0025641025640000)
    (setq Init1Amp 1020167.3008604913000000)
```

```
    (setq Sec2Amp 1872953.4676631421000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359277601657515)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000137621921915)
    (setq C2     0.0000015178888447)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          150000000.0000000000000000
;Desired Amplification                    =                 -0.0282051282040000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1872957.3354655702000000
;Computed Ac1
;(Component Amplification Factor)         =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8359315515070589
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000000
;L1                                       =                  1.3007221499999999
;C1                                       =                  0.0000135793079486
;C2                                       =                  0.0000014977177885
;C3                                       =                  0.0000000000469739
;Rd                                       =         6803777400.0000000000000000
;R1                                       =      1000555499999.9999000000000000
;Rl1                                      =            138803.7653732578300000
;
;
    (setq count   150.0000000000000000)
    (setq DesFreq 150000000.0000000000000000)
    (setq DesAmp    -0.0282051282040000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872957.3354655702000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359315515070589)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000135793079486)
    (setq C2     0.0000014977177885)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          151000000.0000000000000000
;Desired Amplification                    =                 -0.0076923076920000
```

```
;Initial Result 1 Amplitude                =            1020167.3008604913000000
;Secondary Result 2 Amplitude              =            1872962.8739746064000000
;Computed Ac1
;(Component Amplification Factor)          =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =                  1.8359369805274084
;Sign 1 (sign of Result 1)                 =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                 =                 -0.9999999999999999
;L1                                        =                  1.3007221499999999
;C1                                        =                  0.0000134000451228
;C2                                        =                  0.0000014779461532
;C3                                        =                  0.0000000000469739
;Rd                                        =         6803777400.0000000000000000
;R1                                        =      1000555499999.9999000000000000
;Rl1                                       =            138803.7653732578300000
;
;
    (setq count   151.0000000000000000)
    (setq DesFreq 151000000.0000000000000000)
    (setq DesAmp    -0.0076923076920000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872962.8739746064000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359369805274084)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000134000451228)
    (setq C2     0.0000014779461532)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                         =          152000000.0000000000000000
;Desired Amplification                     =                 -0.0230769230760000
;Initial Result 1 Amplitude                =            1020167.3008604913000000
;Secondary Result 2 Amplitude              =            1872968.8391441256000000
;Computed Ac1
;(Component Amplification Factor)          =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =                  1.8359428277737513
;Sign 1 (sign of Result 1)                 =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                 =                 -1.0000000000000000
;L1                                        =                  1.3007221499999999
;C1                                        =                  0.0000132243087277
;C2                                        =                  0.0000014585634626
;C3                                        =                  0.0000000000469739
;Rd                                        =         6803777400.0000000000000000
;R1                                        =      1000555499999.9999000000000000
;Rl1                                       =            138803.7653732578300000
;
;
    (setq count   152.0000000000000000)
```

```
    (setq DesFreq 152000000.0000000000000000)
    (setq DesAmp    -0.0230769230760000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872968.8391441256000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359428277737513)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000132243087277)
    (setq C2     0.0000014585634626)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq R11 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                        =          153000000.0000000000000000
;Desired Amplification                    =                -0.0205128205120000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1872973.5404264913000000
;Computed Ac1
;(Component Amplification Factor)         =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8359474361182471
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -0.9999999999999999
;L1                                       =                  1.3007221499999999
;C1                                       =                  0.0000130520068710
;C2                                       =                  0.0000014395595814
;C3                                       =                  0.0000000000469739
;Rd                                       =         6803777400.0000000000000000
;R1                                       =      1000555499999.9999000000000000
;R11                                      =            138803.7653732578300000
;
;
    (setq count   153.0000000000000000)
    (setq DesFreq 153000000.0000000000000000)
    (setq DesAmp    -0.0205128205120000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872973.5404264913000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359474361182471)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000130520068710)
    (setq C2     0.0000014395595814)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq R11 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
```

```
;
;Desired Frequency                    =          154000000.0000000000000000
;Desired Amplification                =                 -0.0282051282040000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1872976.3291633558000000
;Computed Ac1
;(Component Amplification Factor)     =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359501697256291
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  1.3007221499999999
;C1                                   =                  0.0000128830506344
;C2                                   =                  0.0000014209247023
;C3                                   =                  0.0000000000469739
;Rd                                   =         6803777400.0000000000000000
;R1                                   =      1000555499999.9999000000000000
;Rl1                                  =            138803.7653732578300000
;
;
    (setq count   154.0000000000000000)
    (setq DesFreq 154000000.0000000000000000)
    (setq DesAmp    -0.0282051282040000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872976.3291633558000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359501697256291)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000128830506344)
    (setq C2     0.0000014209247023)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          155000000.0000000000000000
;Desired Amplification                =                 -0.0230769230760000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1872978.1707620518000000
;Computed Ac1
;(Component Amplification Factor)     =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359519749184583
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  1.3007221499999999
;C1                                   =                  0.0000127173539581
;C2                                   =                  0.0000014026493336
;C3                                   =                  0.0000000000469739
;Rd                                   =         6803777400.0000000000000000
;R1                                   =      1000555499999.9999000000000000
;Rl1                                  =            138803.7653732578300000
```

```
;
;
    (setq count   155.0000000000000000)
    (setq DesFreq 155000000.0000000000000000)
    (setq DesAmp    -0.0230769230760000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872978.1707620518000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359519749184583)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000127173539581)
    (setq C2     0.0000014026493336)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          156000000.0000000000000000
;Desired Amplification                =                -0.0282051282040000
;Initial Result 1 Amplitude           =           1020167.3008604913000000
;Secondary Result 2 Amplitude         =           1872980.7975278769000000
;Computed Ac1
;(Component Amplification Factor)     =              1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8359545497567449
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 1.3007221499999999
;C1                                   =                 0.0000125548335324
;C2                                   =                 0.0000013847242867
;C3                                   =                 0.0000000000469739
;Rd                                   =         6803777400.0000000000000000
;R1                                   =      1000555499999.9999000000000000
;Rl1                                  =            138803.7653732578300000
;
;
    (setq count   156.0000000000000000)
    (setq DesFreq 156000000.0000000000000000)
    (setq DesAmp    -0.0282051282040000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872980.7975278769000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359545497567449)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000125548335324)
    (setq C2     0.0000013847242867)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          157000000.0000000000000000
;Desired Amplification                =                -0.0102564102560000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1872985.1870992456000000
;Computed Ac1
;(Component Amplification Factor)      =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359588525523403
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000002
;L1                                   =                  1.3007221499999999
;C1                                   =                  0.0000123954086918
;C2                                   =                  0.0000013671406645
;C3                                   =                  0.0000000000469739
;Rd                                   =         6803777400.0000000000000000
;R1                                   =      1000555499999.9999000000000000
;Rl1                                  =            138803.7653732578300000
;
;
    (setq count   157.0000000000000000)
    (setq DesFreq 157000000.0000000000000000)
    (setq DesAmp    -0.0102564102560000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872985.1870992456000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359588525523403)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000002)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000123954086918)
    (setq C2     0.0000013671406645)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          158000000.0000000000000000
;Desired Amplification                =                -0.0153846153840000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1872990.7044232185000000
;Computed Ac1
;(Component Amplification Factor)      =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359642608064259
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  1.3007221499999999
;C1                                   =                  0.0000122390013157
;C2                                   =                  0.0000013498898510
;C3                                   =                  0.0000000000469739
```

```
;Rd                                          =         6803777400.0000000000000000
;R1                                          =      1000555499999.9999000000000000
;Rl1                                         =            138803.7653732578300000
;
;
    (setq count   158.0000000000000000)
    (setq DesFreq 158000000.0000000000000000)
    (setq DesAmp    -0.0153846153840000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872990.7044232185000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359642608064259)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000122390013157)
    (setq C2     0.0000013498898510)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          159000000.0000000000000000
;Desired Amplification                       =                  0.0051282051280000
;Initial Result 1 Amplitude                  =            1020167.3008604913000000
;Secondary Result 2 Amplitude                =            1872995.6617572112000000
;Computed Ac1
;(Component Amplification Factor)            =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                  1.8359691201407611
;Sign 1 (sign of Result 1)                   =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                 -1.0000000000000000
;L1                                          =                  1.3007221499999999
;C1                                          =                  0.0000120855357321
;C2                                          =                  0.0000013329634999
;C3                                          =                  0.0000000000469739
;Rd                                          =         6803777400.0000000000000000
;R1                                          =      1000555499999.9999000000000000
;Rl1                                         =            138803.7653732578300000
;
;
    (setq count   159.0000000000000000)
    (setq DesFreq 159000000.0000000000000000)
    (setq DesAmp     0.0051282051280000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872995.6617572112000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359691201407611)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000120855357321)
    (setq C2     0.0000013329634999)
    (setq C3     0.0000000000469739)
```

```
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          160000000.0000000000000000
;Desired Amplification                =                  0.0025641025640000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1872998.8042664190000000
;Computed Ac1
;(Component Amplification Factor)      =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359722005268950
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  1.3007221499999999
;C1                                   =                  0.0000119349386267
;C2                                   =                  0.0000013163535250
;C3                                   =                  0.0000000000469739
;Rd                                   =         6803777400.0000000000000000
;R1                                   =      1000555499999.9999000000000000
;Rl1                                  =            138803.7653732578300000
;
;
    (setq count   160.0000000000000000)
    (setq DesFreq 160000000.0000000000000000)
    (setq DesAmp     0.0025641025640000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1872998.8042664190000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359722005268950)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000119349386267)
    (setq C2     0.0000013163535250)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          161000000.0000000000000000
;Desired Amplification                =                  0.0128205128200000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873000.4149096308000000
;Computed Ac1
;(Component Amplification Factor)      =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359737793299113
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  1.3007221499999999
```

```
;C1                                          =                0.0000117871389547
;C2                                          =                0.0000013000520906
;C3                                          =                0.0000000000469739
;Rd                                          =        6803777400.0000000000000000
;R1                                          =     1000555499999.9999000000000000
;Rl1                                         =           138803.7653732578300000
;
;
    (setq count   161.0000000000000000)
    (setq DesFreq 161000000.0000000000000000)
    (setq DesAmp     0.0128205128200000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873000.4149096308000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359737793299113)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000117871389547)
    (setq C2     0.0000013000520906)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =         162000000.0000000000000000
;Desired Amplification                       =                0.0179487179480000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1873002.0670590163000000
;Computed Ac1
;(Component Amplification Factor)            =              1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1).                        =                 1.8359753988185816
;Sign 1 (sign of Result 1)                   =                -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                -1.0000000000000000
;L1                                          =                 1.3007221499999999
;C1                                          =                 0.0000116420678572
;C2                                          =                 0.0000012840516019
;C3                                          =                 0.0000000000469739
;Rd                                          =        6803777400.0000000000000000
;R1                                          =     1000555499999.9999000000000000
;Rl1                                         =           138803.7653732578300000
;
;
    (setq count   162.0000000000000000)
    (setq DesFreq 162000000.0000000000000000)
    (setq DesAmp     0.0179487179480000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873002.0670590163000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359753988185816)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
```

```
    (setq C1     0.0000116420678572)
    (setq C2     0.0000012840516019)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          163000000.0000000000000000
;Desired Amplification                =                 0.0102564102560000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873005.2423943717000000
;Computed Ac1
;(Component Amplification Factor)     =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359785113819354
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  1.3007221499999999
;C1                                   =                  0.0000114996585812
;C2                                   =                  0.0000012683446965
;C3                                   =                  0.0000000000469739
;Rd                                   =         6803777400.0000000000000000
;R1                                   =      1000555499999.9999000000000000
;Rl1                                  =            138803.7653732578300000
;
;
    (setq count   163.0000000000000000)
    (setq DesFreq 163000000.0000000000000000)
    (setq DesAmp     0.0102564102560000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873005.2423943717000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359785113819354)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000114996585812)
    (setq C2     0.0000012683446965)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          164000000.0000000000000000
;Desired Amplification                =                 0.0230769230760000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873010.0293812482000000
;Computed Ac1
;(Component Amplification Factor)     =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8359832037366819
```

```
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   1.3007221499999999
;C1                                       =                   0.0000113598464026
;C2                                       =                   0.0000012529242356
;C3                                       =                   0.0000000000469739
;Rd                                       =         6803777400.0000000000000000
;R1                                       =      1000555499999.9999000000000000
;Rl1                                      =            138803.7653732578300000
;
;
    (setq count   164.0000000000000000)
    (setq DesFreq 164000000.0000000000000000)
    (setq DesAmp     0.0230769230760000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873010.0293812482000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359832037366819)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000113598464026)
    (setq C2     0.0000012529242356)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          165000000.0000000000000000
;Desired Amplification                    =                  0.0025641025640000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873015.0467964637000000
;Computed Ac1
;(Component Amplification Factor)         =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8359881219645169
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000000
;L1                                       =                  1.3007221499999999
;C1                                       =                  0.0000112225685526
;C2                                       =                  0.0000012377832962
;C3                                       =                  0.0000000000469739
;Rd                                       =         6803777400.0000000000000000
;R1                                       =      1000555499999.9999000000000000
;Rl1                                      =            138803.7653732578300000
;
;
    (setq count   165.0000000000000000)
    (setq DesFreq 165000000.0000000000000000)
    (setq DesAmp     0.0025641025640000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873015.0467964637000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359881219645169)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000112225685526)
    (setq C2     0.0000012377832962)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          166000000.0000000000000000
;Desired Amplification                    =                  0.0384615384600000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873018.6595367461000000
;Computed Ac1
;(Component Amplification Factor)         =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8359916632859055
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000000
;L1                                       =                  1.3007221499999999
;C1                                       =                  0.0000110877641473
;C2                                       =                  0.0000012229151633
;C3                                       =                  0.0000000000469739
;Rd                                       =         6803777400.0000000000000000
;R1                                       =      1000555499999.9999000000000000
;Rl1                                      =            138803.7653732578300000
;
;
    (setq count   166.0000000000000000)
    (setq DesFreq 166000000.0000000000000000)
    (setq DesAmp     0.0384615384600000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873018.6595367461000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359916632859055)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000110877641473)
    (setq C2     0.0000012229151633)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          167000000.0000000000000000
;Desired Amplification                    =                  0.0153846153840000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873020.4176322944000000
;Computed Ac1
```

```
;(Component Amplification Factor)        =              1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                 1.8359933866263289
;Sign 1 (sign of Result 1)               =                -1.0000000000000000
;Sign 2 (sign of Result 2)               =                -0.9999999999999999
;L1                                      =                 1.3007221499999999
;C1                                      =                 0.0000109553741204
;C2                                      =                 0.0000012083133221
;C3                                      =                 0.0000000000469739
;Rd                                      =       6803777400.0000000000000000
;R1                                      =    1000555499999.9999000000000000
;Rl1                                     =          138803.7653732578300000
;
;
    (setq count   167.0000000000000000)
    (setq DesFreq 167000000.0000000000000000)
    (setq DesAmp     0.0153846153840000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873020.4176322944000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359933866263289)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000109553741204)
    (setq C2     0.0000012083133221)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =       168000000.0000000000000000
;Desired Amplification                   =              0.0743589743560000
;Initial Result 1 Amplitude              =        1020167.3008604913000000
;Secondary Result 2 Amplitude            =        1873021.4531048182000000
;Computed Ac1
;(Component Amplification Factor)        =              1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                 1.8359944016289889
;Sign 1 (sign of Result 1)               =                -1.0000000000000000
;Sign 2 (sign of Result 2)               =                -1.0000000000000000
;L1                                      =                 1.3007221499999999
;C1                                      =                 0.0000108253411580
;C2                                      =                 0.0000011939714513
;C3                                      =                 0.0000000000469739
;Rd                                      =       6803777400.0000000000000000
;R1                                      =    1000555499999.9999000000000000
;Rl1                                     =          138803.7653732578300000
;
;
    (setq count   168.0000000000000000)
    (setq DesFreq 168000000.0000000000000000)
    (setq DesAmp     0.0743589743560000)
    (setq Init1Amp 1020167.3008604913000000)
```

```
    (setq Sec2Amp 1873021.4531048182000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359944016289889)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000108253411580)
    (setq C2     0.0000011939714513)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq R11 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                        =          169000000.0000000000000000
;Desired Amplification                    =                  0.0435897435880000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873023.4857154549000000
;Computed Ac1
;(Component Amplification Factor)         =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8359963940577160
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000000
;L1                                       =                  1.3007221499999999
;C1                                       =                  0.0000106976096371
;C2                                       =                  0.0000011798834159
;C3                                       =                  0.0000000000469739
;Rd                                       =         6803777400.0000000000000000
;R1                                       =      1000555499999.9999000000000000
;R11                                      =            138803.7653732578300000
;
;
    (setq count   169.0000000000000000)
    (setq DesFreq 169000000.0000000000000000)
    (setq DesAmp     0.0435897435880000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873023.4857154549000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8359963940577160)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000106976096371)
    (setq C2     0.0000011798834159)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq R11 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                        =          170000000.0000000000000000
;Desired Amplification                    =                  0.1179487179440000
```

```
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1873027.3118664271000000
;Computed Ac1
;(Component Amplification Factor)        =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8360001445709591
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  1.3007221499999999
;C1                                      =                  0.0000105721255655
;C2                                      =                  0.0000011660432609
;C3                                      =                  0.0000000000469739
;Rd                                      =         6803777400.0000000000000000
;R1                                      =      1000555499999.9999000000000000
;Rl1                                     =            138803.7653732578300000
;
;
    (setq count   170.0000000000000000)
    (setq DesFreq 170000000.0000000000000000)
    (setq DesAmp     0.1179487179440000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873027.3118664271000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8360001445709591)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000105721255655)
    (setq C2     0.0000011660432609)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =          171000000.0000000000000000
;Desired Amplification                   =                  0.1128205128160000
;Initial Result 1 Amplitude              =            1020167.3008604913000000
;Secondary Result 2 Amplitude            =            1873032.1054049770000000
;Computed Ac1
;(Component Amplification Factor)        =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8360048433478615
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  1.3007221499999999
;C1                                      =                  0.0000104488365256
;C2                                      =                  0.0000011524452050
;C3                                      =                  0.0000000000469739
;Rd                                      =         6803777400.0000000000000000
;R1                                      =      1000555499999.9999000000000000
;Rl1                                     =            138803.7653732578300000
;
;
    (setq count   171.0000000000000000)
```

```
    (setq DesFreq 171000000.0000000000000000)
    (setq DesAmp     0.1128205128160000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873032.1054049770000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8360048433478615)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000104488365256)
    (setq C2     0.0000011524452050)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          172000000.0000000000000000
;Desired Amplification                    =                  0.3230769230640000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873036.1451374835000000
;Computed Ac1
;(Component Amplification Factor)         =               1000.5554999999999000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8360088032204267
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000000
;L1                                       =                  1.3007221499999999
;C1                                       =                  0.0000103276916186
;C2                                       =                  0.0000011390836344
;C3                                       =                  0.0000000000469739
;Rd                                       =         6803777400.0000000000000000
;R1                                       =      1000555499999.9999000000000000
;Rl1                                      =            138803.7653732578300000
;
;
    (setq count   172.0000000000000000)
    (setq DesFreq 172000000.0000000000000000)
    (setq DesAmp     0.3230769230640000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873036.1451374835000000)
    (setq CompAc1  1000.5554999999999000)
    (setq CheckAmp     1.8360088032204267)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     1.3007221499999999)
    (setq C1     0.0000103276916186)
    (setq C2     0.0000011390836344)
    (setq C3     0.0000000000469739)
    (setq Rd 6803777400.0000000000000000)
    (setq R1 1000555499999.9999000000000000)
    (setq Rl1 138803.7653732578300000)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
```

```
;
;Desired Frequency                    =          173000000.0000000000000000
;Desired Amplification                =                  1.0179487179080000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873270.8944713459000000
;Computed Ac1
;(Component Amplification Factor)     =                  1.4445000000000001
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362389118836473
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0018778500000000
;C1                                   =                  0.0070711750177409
;C2                                   =                  0.0007799090093097
;C3                                   =                  0.0000000325372101
;Rd                                   =            9822600.0000000000000000
;R1                                   =         1444500000.0000000000000000
;R11                                  =                200.3907220355802100
;
;
    (setq count   173.0000000000000000)
    (setq DesFreq 173000000.0000000000000000)
    (setq DesAmp     1.0179487179080000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873270.8944713459000000)
    (setq CompAc1     1.4445000000000001)
    (setq CheckAmp     1.8362389118836473)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0018778500000000)
    (setq C1     0.0070711750177409)
    (setq C2     0.0007799090093097)
    (setq C3     0.0000000325372101)
    (setq Rd 9822600.0000000000000000)
    (setq R1 1444500000.0000000000000000)
    (setq R11   200.3907220355802100)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 R11)
;
;
;Desired Frequency                    =          174000000.0000000000000000
;Desired Amplification                =                  5.4641025638839995
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873293.0834030930000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362606621708095
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0227159590499739
;C2                                   =                  0.0025054366599236
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;R11                                  =                 61.6640193456665950
```

```
;
;
    (setq count   174.0000000000000000)
    (setq DesFreq 174000000.0000000000000000)
    (setq DesAmp     5.4641025638839995)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.0834030930000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362606621708095)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0227159590499739)
    (setq C2     0.0025054366599236)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          175000000.0000000000000000
;Desired Amplification                    =                 44.5256410238599970
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873293.2075810439000000
;Computed Ac1
;(Component Amplification Factor)         =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8362607838939335
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000000
;L1                                       =                  0.0005778500000000
;C1                                       =                  0.0224570898350044
;C2                                       =                  0.0024768849082725
;C3                                       =                  0.0000001057367829
;Rd                                       =            3022600.0000000000000000
;R1                                       =          444500000.0000000000000000
;Rl1                                      =                 61.6640193456665950
;
;
    (setq count   175.0000000000000000)
    (setq DesFreq 175000000.0000000000000000)
    (setq DesAmp    44.5256410238599970)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.2075810439000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362607838939335)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0224570898350044)
    (setq C2     0.0024768849082725)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          176000000.0000000000000000
;Desired Amplification                =               729.1974358682680300
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873293.3303892715000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362609042744118
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0222026206158642
;C2                                   =                 0.0024488184502791
;C3                                   =                 0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count   176.0000000000000000)
    (setq DesFreq 176000000.0000000000000000)
    (setq DesAmp   729.1974358682680300)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.3303892715000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362609042744118)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0222026206158642)
    (setq C2     0.0024488184502791)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          177000000.0000000000000000
;Desired Amplification                =           -1313678.0255884787000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873293.4518207416000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362610233053491
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0219524522390440
;C2                                   =                 0.0024212263498946
;C3                                   =                 0.0000001057367829
```

```
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =               61.6640193456665950
;
;
    (setq count   177.0000000000000000)
    (setq DesFreq 177000000.0000000000000000)
    (setq DesAmp -1313678.0255884787000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.4518207416000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362610233053491)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0219524522390440)
    (setq C2     0.0024212263498946)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =         178000000.0000000000000000
;Desired Amplification                       =          20428908.9735418190000000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1873293.5712561514000000
;Computed Ac1
;(Component Amplification Factor)            =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                 1.8362611403796856
;Sign 1 (sign of Result 1)                   =                -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                -0.9999999999999999
;L1                                          =                 0.0005778500000000
;C1                                          =                 0.0217064883283995
;C2                                          =                 0.0023940979773970
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =               61.6640193456665950
;
;
    (setq count   178.0000000000000000)
    (setq DesFreq 178000000.0000000000000000)
    (setq DesAmp 20428908.9735418190000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.5712561514000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362611403796856)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.0217064883283995)
    (setq C2     0.0023940979773970)
    (setq C3     0.0000001057367829)
```

```
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          179000000.0000000000000000
;Desired Amplification                =         -155711821.0014638600000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873293.6880493648000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362612548640582
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0214646351923164
;C2                                   =                  0.0023674229991525
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                 61.6640193456665950
;
;
    (setq count   179.0000000000000000)
    (setq DesFreq 179000000.0000000000000000)
    (setq DesAmp -155711821.0014638600000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.6880493648000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362612548640582)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0214646351923164)
    (setq C2     0.0023674229991525)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          180000000.0000000000000000
;Desired Amplification                =          769487681.0922974300000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873293.8021353006000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362613666946723
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
```

```
;C1                                          =                 0.0212268017344756
;C2                                          =                 0.0023411913677730
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =                61.6640193456665950
;
;
    (setq count   180.0000000000000000)
    (setq DesFreq 180000000.0000000000000000)
    (setq DesAmp 769487681.0922974300000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.8021353006000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362613666946723)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0212268017344756)
    (setq C2     0.0023411913677730)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =         181000000.0000000000000000
;Desired Amplification                       =       -2755454827.4615769000000000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1873293.9141257834000000
;Computed Ac1
;(Component Amplification Factor)            =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                 1.8362614764712577
;Sign 1 (sign of Result 1)                   =                -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                -1.0000000000000000
;L1                                          =                 0.0005778500000000
;C1                                          =                 0.0209928993680599
;C2                                          =                 0.0023153933126537
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =                61.6640193456665950
;
;
    (setq count   181.0000000000000000)
    (setq DesFreq 181000000.0000000000000000)
    (setq DesAmp -2755454827.4615769000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.9141257834000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362614764712577)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
```

```
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          179000000.0000000000000000
;Desired Amplification                =         -155711821.0014638600000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873293.6880493648000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362612548640582
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0214646351923164
;C2                                   =                  0.0023674229991525
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                 61.6640193456665950
;
;
    (setq count   179.0000000000000000)
    (setq DesFreq 179000000.0000000000000000)
    (setq DesAmp -155711821.0014638600000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.6880493648000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362612548640582)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0214646351923164)
    (setq C2     0.0023674229991525)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          180000000.0000000000000000
;Desired Amplification                =          769487681.0922974300000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873293.8021353006000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362613666946723
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
```

```
;C1                                          =                 0.0212268017344756
;C2                                          =                 0.0023411913677730
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =                61.6640193456665950
;
;
    (setq count   180.0000000000000000)
    (setq DesFreq 180000000.0000000000000000)
    (setq DesAmp 769487681.0922974300000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.8021353006000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362613666946723)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0212268017344756)
    (setq C2     0.0023411913677730)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =         181000000.0000000000000000
;Desired Amplification                       =       -2755454827.4615769000000000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1873293.9141257834000000
;Computed Ac1
;(Component Amplification Factor)            =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                 1.8362614764712577
;Sign 1 (sign of Result 1)                   =                -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                -1.0000000000000000
;L1                                          =                 0.0005778500000000
;C1                                          =                 0.0209928993680599
;C2                                          =                 0.0023153933126537
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =                61.6640193456665950
;
;
    (setq count   181.0000000000000000)
    (setq DesFreq 181000000.0000000000000000)
    (setq DesAmp -2755454827.4615769000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873293.9141257834000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362614764712577)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
```

```
    (setq C1     0.0209928993680599)
    (setq C2     0.0023153933126537)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          182000000.0000000000000000
;Desired Amplification                =         7570176297.2459116000000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873294.0248091226000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362615849665398
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0207628419332511
;C2                                   =                  0.0022900193308733
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                 61.6640193456665950
;
;
    (setq count   182.0000000000000000)
    (setq DesFreq 182000000.0000000000000000)
    (setq DesAmp 7570176297.2459116000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873294.0248091226000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362615849665398)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0207628419332511)
    (setq C2     0.0022900193308733)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          183000000.0000000000000000
;Desired Amplification                =       -16465190801.1157530000000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873294.1344934606000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362616924825699
```

```
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -1.0000000000000000
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.0205365456178748
;C2                                       =                   0.0022650601784421
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count   183.0000000000000000)
    (setq DesFreq 183000000.0000000000000000)
    (setq DesAmp -16465190801.1157530000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873294.1344934606000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362616924825699)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0205365456178748)
    (setq C2     0.0022650601784421)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          184000000.0000000000000000
;Desired Amplification                    =        28777303598.8207050000000000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873294.2427713589000000
;Computed Ac1
;(Component Amplification Factor)         =                   0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                   1.8362617986199634
;Sign 1 (sign of Result 1)                =                  -1.0000000000000000
;Sign 2 (sign of Result 2)                =                  -0.9999999999999999
;L1                                       =                   0.0005778500000000
;C1                                       =                   0.0203139288810554
;C2                                       =                   0.0022405068618811
;C3                                       =                   0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                  61.6640193456665950
;
;
    (setq count   184.0000000000000000)
    (setq DesFreq 184000000.0000000000000000)
    (setq DesAmp 28777303598.8207050000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873294.2427713589000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362617986199634)
```

```
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.0203139288810554)
    (setq C2     0.0022405068618811)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rll)
;
;
;Desired Frequency                        =          185000000.0000000000000000
;Desired Amplification                    =       -40404359076.7069020000000000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873294.3489126374000000
;Computed Ac1
;(Component Amplification Factor)         =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8362619026629752
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000002
;L1                                       =                  0.0005778500000000
;C1                                       =                  0.0200949123797519
;C2                                       =                  0.0022163506301197
;C3                                       =                  0.0000001057367829
;Rd                                       =            3022600.0000000000000000
;R1                                       =          444500000.0000000000000000
;Rll                                      =                 61.6640193456665950
;
;
    (setq count   185.0000000000000000)
    (setq DesFreq 185000000.0000000000000000)
    (setq DesAmp -40404359076.7069020000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873294.3489126374000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362619026629752)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000002)
    (setq L1     0.0005778500000000)
    (setq C1     0.0200949123797519)
    (setq C2     0.0022163506301197)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rll    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rll)
;
;
;Desired Frequency                        =          186000000.0000000000000000
;Desired Amplification                    =       44532327009.8135760000000000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873294.4525400803000000
;Computed Ac1
```

```
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362620042418463
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -0.9999999999999999
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.0198794188980521
;C2                                      =                  0.0021925829666969
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count   186.0000000000000000)
    (setq DesFreq 186000000.0000000000000000)
    (setq DesAmp 44532327009.8135760000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873294.4525400803000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362620042418463)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.0198794188980521)
    (setq C2     0.0021925829666969)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                       =         187000000.0000000000000000
;Desired Amplification                   =       -35500083446.2184600000000000
;Initial Result 1 Amplitude              =           1020167.3008604913000000
;Secondary Result 2 Amplitude            =           1873294.5539938670000000
;Computed Ac1
;(Component Amplification Factor)        =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                     =                  1.8362621036900315
;Sign 1 (sign of Result 1)               =                 -1.0000000000000000
;Sign 2 (sign of Result 2)               =                 -1.0000000000000000
;L1                                      =                  0.0005778500000000
;C1                                      =                  0.0196673732791046
;C2                                      =                  0.0021691955822542
;C3                                      =                  0.0000001057367829
;Rd                                      =            3022600.0000000000000000
;R1                                      =          444500000.0000000000000000
;Rl1                                     =                 61.6640193456665950
;
;
    (setq count   187.0000000000000000)
    (setq DesFreq 187000000.0000000000000000)
    (setq DesAmp -35500083446.2184600000000000)
    (setq Init1Amp 1020167.3008604913000000)
```

```
    (setq Sec2Amp 1873294.5539938670000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362621036900315)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0196673732791046)
    (setq C2     0.0021691955822542)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          188000000.0000000000000000
;Desired Amplification                    =        13547096675.5401690000000000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873294.6540643109000000
;Computed Ac1
;(Component Amplification Factor)         =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                 1.8362622017822208
;Sign 1 (sign of Result 1)                =                -1.0000000000000000
;Sign 2 (sign of Result 2)                =                -1.0000000000000000
;L1                                       =                 0.0005778500000000
;C1                                       =                 0.0194587023595804
;C2                                       =                 0.0021461804073067
;C3                                       =                 0.0000001057367829
;Rd                                       =            3022600.0000000000000000
;R1                                       =          444500000.0000000000000000
;Rl1                                      =                61.6640193456665950
;
;
    (setq count   188.0000000000000000)
    (setq DesFreq 188000000.0000000000000000)
    (setq DesAmp 13547096675.5401690000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873294.6540643109000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362622017822208)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0194587023595804)
    (setq C2     0.0021461804073067)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          189000000.0000000000000000
;Desired Amplification                    =        13781231923.1846490000000000
```

```
;Initial Result 1 Amplitude                =            1020167.3008604913000000
;Secondary Result 2 Amplitude              =            1873294.7533279399000000
;Computed Ac1
;(Component Amplification Factor)          =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =                 1.8362622990835447
;Sign 1 (sign of Result 1)                 =                -1.0000000000000000
;Sign 2 (sign of Result 2)                 =                -1.0000000000000000
;L1                                        =                 0.0005778500000000
;C1                                        =                 0.0192533349065539
;C2                                        =                 0.0021235295852817
;C3                                        =                 0.0000001057367829
;Rd                                        =           3022600.0000000000000000
;R1                                        =         444500000.0000000000000000
;Rl1                                       =              61.6640193456665950
;
;
    (setq count   189.0000000000000000)
    (setq DesFreq 189000000.0000000000000000)
    (setq DesAmp 13781231923.1846490000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873294.7533279399000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362622990835447)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0192533349065539)
    (setq C2     0.0021235295852817)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                         =          190000000.0000000000000000
;Desired Amplification                     =       -35643308358.7614520000000000
;Initial Result 1 Amplitude                =            1020167.3008604913000000
;Secondary Result 2 Amplitude              =            1873294.8516707432000000
;Computed Ac1
;(Component Amplification Factor)          =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                       =                 1.8362623954822463
;Sign 1 (sign of Result 1)                 =                -1.0000000000000000
;Sign 2 (sign of Result 2)                 =                -1.0000000000000000
;L1                                        =                 0.0005778500000000
;C1                                        =                 0.0190512015567039
;C2                                        =                 0.0021012354658129
;C3                                        =                 0.0000001057367829
;Rd                                        =           3022600.0000000000000000
;R1                                        =         444500000.0000000000000000
;Rl1                                       =              61.6640193456665950
;
;
    (setq count   190.0000000000000000)
```

```
    (setq DesFreq 190000000.0000000000000000)
    (setq DesAmp -35643308358.7614520000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873294.8516707432000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362623954822463)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0190512015567039)
    (setq C2     0.0021012354658129)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          191000000.0000000000000000
;Desired Amplification                    =        44548376605.1078110000000000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873294.9484178298000000
;Computed Ac1
;(Component Amplification Factor)         =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8362624903167766
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000000
;L1                                       =                  0.0005778500000000
;C1                                       =                  0.0188522347577372
;C2                                       =                  0.0020792905982798
;C3                                       =                  0.0000001057367829
;Rd                                       =             3022600.0000000000000000
;R1                                       =           444500000.0000000000000000
;Rl1                                      =                 61.6640193456665950
;
;
    (setq count   191.0000000000000000)
    (setq DesFreq 191000000.0000000000000000)
    (setq DesAmp 44548376605.1078110000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873294.9484178298000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362624903167766)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0188522347577372)
    (setq C2     0.0020792905982798)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
```

```
;
;Desired Frequency                    =          192000000.0000000000000000
;Desired Amplification                =       -40323336294.3921970000000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873295.0429555173000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362625829855843
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0186563687119415
;C2                                   =                  0.0020576877255818
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                 61.6640193456665950
;
;
    (setq count   192.0000000000000000)
    (setq DesFreq 192000000.0000000000000000)
    (setq DesAmp -40323336294.3921970000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873295.0429555173000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362625829855843)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0186563687119415)
    (setq C2     0.0020576877255818)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          193000000.0000000000000000
;Desired Amplification                =       28662189834.4637720000000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873295.1352988465000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362626735034131
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0184635393217807
;C2                                   =                  0.0020364197781376
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                 61.6640193456665950
```

```
;
;
    (setq count   193.0000000000000000)
    (setq DesFreq 193000000.0000000000000000)
    (setq DesAmp 28662189834.4637720000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873295.1352988465000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362626735034131)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0184635393217807)
    (setq C2     0.0020364197781376)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                        =          194000000.0000000000000000
;Desired Amplification                    =       -16367886049.3657990000000000
;Initial Result 1 Amplitude               =            1020167.3008604913000000
;Secondary Result 2 Amplitude             =            1873295.2261055342000000
;Computed Ac1
;(Component Amplification Factor)         =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                      =                  1.8362627625149779
;Sign 1 (sign of Result 1)                =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                =                 -1.0000000000000000
;L1                                       =                  0.0005778500000000
;C1                                       =                  0.0182736841374485
;C2                                       =                  0.0020154798681009
;C3                                       =                  0.0000001057367829
;Rd                                       =            3022600.0000000000000000
;R1                                       =          444500000.0000000000000000
;Rl1                                      =                 61.6640193456665950
;
;
    (setq count   194.0000000000000000)
    (setq DesFreq 194000000.0000000000000000)
    (setq DesAmp -16367886049.3657990000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873295.2261055342000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362627625149779)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0182736841374485)
    (setq C2     0.0020154798681009)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
```

```
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          195000000.0000000000000000
;Desired Amplification                =         7510495679.0200930000000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873295.3161240995000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362628507540002
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -1.0000000000000000
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0180867423062988
;C2                                   =                 0.0019948612837830
;C3                                   =                 0.0000001057367829
;Rd                                   =           3022600.0000000000000000
;R1                                   =         444500000.0000000000000000
;Rl1                                  =                61.6640193456665950
;
;
    (setq count   195.0000000000000000)
    (setq DesFreq 195000000.0000000000000000)
    (setq DesAmp 7510495679.0200930000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873295.3161240995000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362628507540002)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0180867423062988)
    (setq C2     0.0019948612837830)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          196000000.0000000000000000
;Desired Amplification                =        -2727759568.5216589000000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873295.4055614760000000
;Computed Ac1
;(Component Amplification Factor)     =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                 1.8362629384233231
;Sign 1 (sign of Result 1)            =                -1.0000000000000000
;Sign 2 (sign of Result 2)            =                -0.9999999999999999
;L1                                   =                 0.0005778500000000
;C1                                   =                 0.0179026545240788
;C2                                   =                 0.0019745574842734
;C3                                   =                 0.0000001057367829
```

```
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =              61.6640193456665950
;
;
    (setq count   196.0000000000000000)
    (setq DesFreq 196000000.0000000000000000)
    (setq DesAmp -2727759568.5216589000000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873295.4055614760000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362629384233231)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -0.9999999999999999)
    (setq L1     0.0005778500000000)
    (setq C1     0.0179026545240788)
    (setq C2     0.0019745574842734)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =         197000000.0000000000000000
;Desired Amplification                       =         759806583.0696077300000000
;Initial Result 1 Amplitude                  =           1020167.3008604913000000
;Secondary Result 2 Amplitude                =           1873295.4939261896000000
;Computed Ac1
;(Component Amplification Factor)            =                 0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                 1.8362630250411882
;Sign 1 (sign of Result 1)                   =                -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                -1.0000000000000000
;L1                                          =                 0.0005778500000000
;C1                                          =                 0.0177213629878897
;C2                                          =                 0.0019545620942525
;C3                                          =                 0.0000001057367829
;Rd                                          =           3022600.0000000000000000
;R1                                          =         444500000.0000000000000000
;Rl1                                         =              61.6640193456665950
;
;
    (setq count   197.0000000000000000)
    (setq DesFreq 197000000.0000000000000000)
    (setq DesAmp 759806583.0696077300000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873295.4939261896000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362630250411882)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0177213629878897)
    (setq C2     0.0019545620942525)
    (setq C3     0.0000001057367829)
```

```
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          198000000.0000000000000000
;Desired Amplification                =         -153255283.3246390200000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873295.5804850268000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362631098888766
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
;C1                                   =                  0.0175428113508063
;C2                                   =                  0.0019348688989860
;C3                                   =                  0.0000001057367829
;Rd                                   =            3022600.0000000000000000
;R1                                   =          444500000.0000000000000000
;Rl1                                  =                 61.6640193456665950
;
;
    (setq count   198.0000000000000000)
    (setq DesFreq 198000000.0000000000000000)
    (setq DesAmp -153255283.3246390200000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873295.5804850268000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362631098888766)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0175428113508063)
    (setq C2     0.0019348688989860)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                    =          199000000.0000000000000000
;Desired Amplification                =           20012975.1735584550000000
;Initial Result 1 Amplitude           =            1020167.3008604913000000
;Secondary Result 2 Amplitude         =            1873295.6649316517000000
;Computed Ac1
;(Component Amplification Factor)     =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                  =                  1.8362631926661082
;Sign 1 (sign of Result 1)            =                 -1.0000000000000000
;Sign 2 (sign of Result 2)            =                 -1.0000000000000000
;L1                                   =                  0.0005778500000000
```

```
;C1                                          =                  0.0173669446780892
;C2                                          =                  0.0019154718394951
;C3                                          =                  0.0000001057367829
;Rd                                          =            3022600.0000000000000000
;R1                                          =          444500000.0000000000000000
;Rl1                                         =                 61.6640193456665950
;
;
    (setq count   199.0000000000000000)
    (setq DesFreq 199000000.0000000000000000)
    (setq DesAmp 20012975.1735584550000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873295.6649316517000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362631926661082)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
    (setq C1     0.0173669446780892)
    (setq C2     0.0019154718394951)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
;
;Desired Frequency                           =          200000000.0000000000000000
;Desired Amplification                       =           -1275353.2666156525000000
;Initial Result 1 Amplitude                  =            1020167.3008604913000000
;Secondary Result 2 Amplitude                =            1873295.7476792608000000
;Computed Ac1
;(Component Amplification Factor)            =                  0.4445000000000000
;Check of Amplification Factor Desired
;(Result 2/Result 1)                         =                  1.8362632737779110
;Sign 1 (sign of Result 1)                   =                 -1.0000000000000000
;Sign 2 (sign of Result 2)                   =                 -1.0000000000000000
;L1                                          =                  0.0005778500000000
;C1                                          =                  0.0171937094049253
;C2                                          =                  0.0018963650078962
;C3                                          =                  0.0000001057367829
;Rd                                          =            3022600.0000000000000000
;R1                                          =          444500000.0000000000000000
;Rl1                                         =                 61.6640193456665950
;
;
    (setq count   200.0000000000000000)
    (setq DesFreq 200000000.0000000000000000)
    (setq DesAmp -1275353.2666156525000000)
    (setq Init1Amp 1020167.3008604913000000)
    (setq Sec2Amp 1873295.7476792608000000)
    (setq CompAc1     0.4445000000000000)
    (setq CheckAmp     1.8362632737779110)
    (setq Sign1    -1.0000000000000000)
    (setq Sign2    -1.0000000000000000)
    (setq L1     0.0005778500000000)
```

```
    (setq C1     0.0171937094049253)
    (setq C2     0.0018963650078962)
    (setq C3     0.0000001057367829)
    (setq Rd 3022600.0000000000000000)
    (setq R1 444500000.0000000000000000)
    (setq Rl1    61.6640193456665950)
    (insblkd count DesFreq DesAmp Init1Amp Sec2Amp CompAc1 CheckAmp Sign1 Sign2
L1 C1 C2 C3 Rd R1 Rl1)
;
  )
)
```